

Sanday Sugmeen office Ch Ackorda & Sensels of the Postel and to the Concernition arithmetical participation 540 1 - 1 126 540 [1+15 1+ 100 (1+ 1/35 · 1+ 1/90 + 1/90 25)]

$$x \cot x = 1 - B \cot \frac{1}{2} - B \cot \frac{1}{2} - B \cot \frac{1}{2}$$

$$= 6 \left\{ \frac{B_{5}}{B_{5}} x^{5} + \frac{B_{10}}{10} x^{10} + \frac{B_{16}}{10} x^{16} + \frac{1}{2} \right\}$$

$$= 3 \left\{ \frac{B_{12}}{B_{12}} x^{5} + \frac{B_{22}}{B_{12}} x^{2} + \frac{1}{2} \right\}$$

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$$= 3 \left\{ \frac{B_{13}}{B_{13}} x^{5} + \frac{B_{13}}{B_{13}} x^{1} + \frac{B_{13$$

Bg - B2 = - 45-By - 143 B8 + Bz = 120 $B_4 = \frac{7}{30}$ B10 - 5 B4 = - 132 B16 - 286 B10 + 4 B4 = 1 306 B6 - B8 = 1 $B_{12} - 11B_6 + \frac{B_0}{455} = -\frac{1}{91}$ $B_{18} - 221B_{12} + \frac{204}{5}B_6 - \frac{B_0}{1330} = \frac{1}{170}$ 1+2 Bn=nGBn-6 B6 + nG2 Bm-12 Bnth when n-2 is a multiple of 6.

in

$$\frac{\sqrt{1} = 1.4142185-625780950488017}{\sqrt{3} = 1.7340}$$

$$\frac{3 - 64x^{24}}{3 - x^{3} = 2}$$

$$\frac{7 - x^{3} = 1}{10 - x^{3} - x^{4} + x = 2}$$

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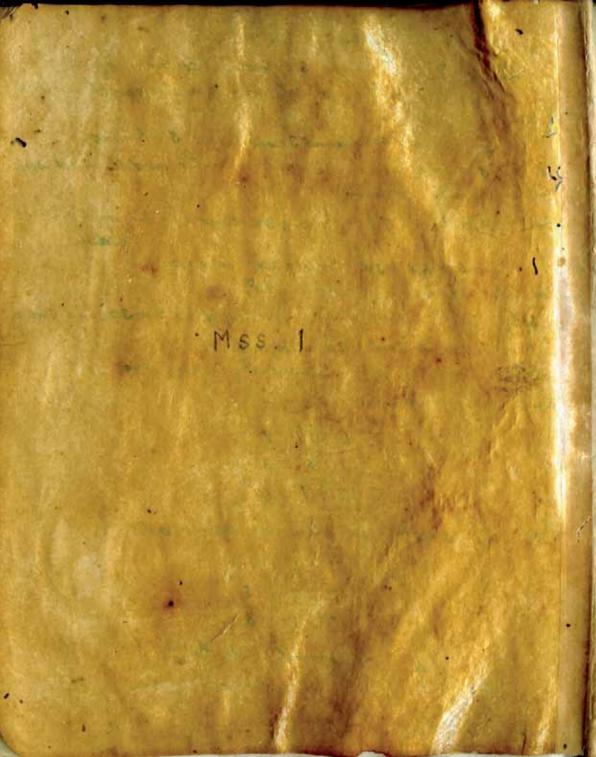
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CHAPTER L. MAGIC SQUARES Left a be the average, & a now or a column on middle on why on or column of columns & a dingonal and w Michille barn. The 12 So as contains 3 nows and 8 columns, If I and a we rough white a mille medile and safe ply the other figures · Soll - dy+dx+ roy+ mx = N+3x where x is the ray of figure in 1. 40 = 30 +34. .. 0 = 3× 00 = 2 = 0. Con The property in I are in A.P. sol - The same of the prompter and is so sa and ind = was in fall of 200 + 200 = love the exceed gar in A.P. Similarly in malso. First up the Sperces When 5 = 15 7 5: 3 2. When s=27 and all owners are odd. When and down unequal viele ditte 5, Ent of the House the Son will in A. P. her They



2 Thele of the Survive when S= 20, d, = 14 and = -19. 112 shere the deagonals columnes and nows are all different write f(d,+d+m,+m-w) in the med-to Ex. Fell up the Square when it, 5 d= 19 and the columns and rows are 16, 17, 13, 6, 21, and 18. and are othering combines 3 nows and & A CHO MAD CHO € 8+5 0 +30 8+10 13 > Z NHD CHO AND Exe Tell up the obling when a = 8 3. Where a 3" rate continue 4 nows and 4 Columns. 1. When the disposals and rows are all defterret carried the central pour so hat alle succe may be to the total my + my - W).

AN CHE DIA THE FigI DHR DIE AHS EHP B+ CHE CHE VIR. cfo mp dys Dys 4+0= B42 +5= P+R A+P D+R D+R A+S Fig II DIS CHA CHE BYP CHS BAR WAR CAP 百十日 大田 八十月 日十日 18 6 7 7 1 7 2 9 6 13 12 3 8 10 17 5 11 4 5 14 13 3 7 16 and 5 columns. The de sou was contribute. 1 58 59 4 5 62 63 8 ATP ETR DATE +0 13+8 14 SE SE 18 11 ST 50 9 C+T DHO AT ET DER 24 47 NG U 20 43 42 17 25 14 31 48 29 38 39 32 ETS DAP CHA BAT AND 33 26 47 86 37 30 31 40 BHA ANT EHR DAS CHP 45 21 22 45 44 19 18 41 D+ 1 (+3 0+P ++8 E+7 5% 15 /1 63 58 11 10 49 67 2 3 60 61 6 7 66 the open Granty Sentituely weller Benefater Curatimen is

1:- 1 2/2 = \$ 200 + 20 + 2/2000 三(サナッケナキナハ・リサンショ)ー(リナケナケノ・・・・・ を) 50L. T.H.S = 2 (mg + mrs + - + + 2) with m = 00 = 2) + dx = 26/2. on thus In the Solution of III. We got (1+ 1 + 1 + 1 + 1 + 1) - (+ 8 + et + 2n) . When n = 00 this becomes 1- 4+ 8 6+ 4- Be = 10,2 ... The reg & Sum = 2692 VB = 4 means the sum of the reaperscale of a natural monthers. There for sing = 1+4+5+ ... it is and + weether is = to which has no meanting according. 新 多名の かった 第一十 第二十 第二十 十 第二十 = 200 1 + 1 That I Francis + 200 + (con +) (con) (con +))

sol will have by III CHANGE TO SENTE TO STATE OF THE ((() + (= 2 = { The start = \$5007 + ... + construction (smill) - 2 = 1 3. 3. 1 mg + 1 . . . + 3mil = 1 + 3 5 + 6 5 + ... + 0 mil in Solo By proceeding at in IL, we have R. H. S = = Int - = 1/2 = 14 1+ 35 t 676+ 1/2 9 + be = log 8. 3. tunt the than her time + tant south = to-1 + tout 5 + lun 71.55 + . . + (an (3 n + 2) (9 n) Cor log3 = land + tant 4 + land 19 + tout 3 + tant 1/5 +00 4. (n+1 + our + our + (n) + (2+1) + (2+1) =1+ 2+4 to 12 + 12 10 + 111 of 600 1/4 一生主意一大大 = (min + min + the) = (the + 1 the town + tow) + (then + the , + + then

Show that 2 {1+ 626+ 10 10 + ... + (cm) 2-6+ } (+ 3 31 + 2 2 + 4 4 4 6 6 + ··· + (em) - (m) = 1 + 21-3 + 61 6 + ... + (3 m) 1-1 m + (6 m+1) (6 m + 0) (6 m) +1+ 2+ + + + (enst on. & front + tout & + tout & + tout & + tout & + tout 4. of land of + tank of + tout to + tout of + land to + tank to 1= 1 + 2 tout & 4 1 m - 1 25 + Can 3 + Can 45 9. 2 (land not + tour not + ... tour 2nos) = land not Alten 1 37 + ton 1 1/37 + tout 167 + t - 1011 + 2 (land to + kan-1 1.19 + land 3.39 + ... + land meetings) 10. tand has + band not to the tand ton + tand for + trant into + con + ton" west = = + tour 3 + tour 39 + tour 3789 + 1. + tour 32789 + tan' 137 + tant 2001 + (and 1641 + ... Com! 128 148 x + be expected as in II 2 for all values of a but 2, 3, 4 and 6 though it care the summed up for all walves of a 6. 9/ 1/ = 3 /n+1) - 5 Then

A \$1-1 3 + 62-6 + 42-9 + ... + (m)2-an } # (3K,) - 3K, + (2-1) { (3/6+3) 3- (3/6+1) + (3/6+4) 3- (3/6+4) ... + (1-1) { (K,+1)3-(K,+3) + (K,+6)3-(K,+6) + ... + (K,5)-3K2 } + ... to a leumi Soly By II 2 we have, 1 for + for + + + + for = 1+ for + 6 to + + (3 m) 2 m - Lute + 3 mis ++ - + quire = 1+ 323 + 1 + (9 m+3)3-(9 m+1) The true get the esself. = 11 4 (1-1) (323) -+ (1-2) (26 + 2 9 9 + 12 11) -+(n-3) (185-15+ 18518 + " + 393 29) + 818 to or turns. 1. 13. It willen are very asoful in finding the approx mate value of it whether n is small on very great without knowing egazithms, differential and integral on our us. In finding = to de must be remembered that when a, and an are very gust and a, a is the are in A. F. the approximate value of a, + ta + ... + a

2. Shell that 1+ 1 + 1 + 1 + 1000 + 1000 Could from + tom (8+2) + tom firs) + as to a time soli your a four new tout on +132 LHS = (tan & land for both) of (love to the tan the) + I fam to tan note) + 1 - 1 + (can't x tine - tour hour tanta the most con Vant (our) + tant (n+1) + can't entire + &c = tour's. It Make a infinite in III. Exile Cont prope + Land origin (originat one = Land the Sol. Pour tours + Court from ton = tours to tont (new) + band (new) + be = (and the the dans total to the forther the and total NB. If n 2 VE-1 ada TI to R.H.S. tant first - time (nr2) + Count firsy - ox = tour often tran 1 2 (n+02 + trans 2(n+4) + trans (41+1) + & = tans 1 1.) 3年 = Cart 年 + tan 1 元 + tan 1元 + &c 5 7 - Can the + band 22 + But = band = tant = + bec 6 = cart (1400 + tand (1+1/2) + tom (1+1/4) + &C

8. 3年 1 - イメナル×++ 大かけんはかけん and Pn = A, Pn , + A Pn = + 13 Pn - 1 + ac - + An 1 P, and An = 4, Pn , + A Pn - L + 13 An + + . . . + An i A, + An 40 19 = 1 and 90=1 then to approaches & when or becomes qualic & qualter. Eq. 1. x+x=1 21 = 21 11 = 31 31 5 1 3 8 CAC 2 x+x+x=1. 第二年,李·蒙·蒙·蒙·蒙·蒙· x+x3=1 x===1, 1, 1, 1, 1, 2, 3, 4, 6, 9, 13, 13, 000 V. B. If & and to are two consecutive convergents to x - ner xquivalent to x. Ex. 1. Find convergents to Cop? Sol. Let logh = 2 then ex= 2 に ノーンナギナデナ芸士を X = 91 +1 1/21 2/31 3/21 8/1 When at = x show that the onvergents to x are 文·李·李·紫·安。

$$f(0) = e^{2} \psi(0) t_{00}$$

$$f(0) = e^{2} \psi(0) t$$

Z + 2 + 1 3 + 2 + 8 c = e + (3) Sox. L.H. 5 = 1 { xn + 2 n+1 + 2 n+1 + 6 n+2)16 + 6xx} The and a 17 = 3 | 5xmidx - 55xm-1(xx)2 + 555xm-1(xx)3 - 8xc} $=\frac{e^{x}}{2^{m+1}}\left\{\begin{array}{c} x^{m} + \frac{x^{m+1}}{2^{m}} + \frac{x^{m+1}}{2^{m}} - 8xc\right\} = R.H.S.$ $\frac{1}{n+m} = \frac{1}{m} - \frac{2m}{n(n+m)} = \frac{1}{2n} - \frac{2m}{n(n+1)} + \frac{2m(m-1)}{n(n+1)(n+2m)}$ $\frac{1}{2}\left(\frac{m}{n}-\frac{m}{n(n+1)}\right) + \frac{m(m+1)(m+1)}{n(n+1)(n+1)} - \frac{m(m+1)(m+1)}{2(n+1)(n+1)(n+m)}$ &c &c. 1 77 = 4 - menty + mentalenty - buc (のナか)しか アーカー かられてひとかま サ かんのナンにかりはかま ひん is that of a met on R.H.S. 1. L. H.S. R.H.S. # e (在一年十五 元十二 Different Land took Sides with regards to a and. can on the firm a we can get the result.

(01+1)(m+1)(m+3) 191717(miss) to to the sol. My The I we have Walter - Hower of the contract of the Section = 10 + (0+1) 11 + (0014) 14 + &c changing or to more we have e f men = torent to the mental mental - 61 1 x+ 1 x+ 1 x+ 1 x1+ 6 x1 + 8x} + 42 1 6 x + 6 x + 1 x 1 + 9 x 1 + 6 x 1 + 6 x 1 - &c = to - for + 5 far - ar by our Supposition . L. H. 8 = R-H.S. W. A. An easier solution for the to us follows Let \$60 = " ton u + (non) u + (non) u + & Then 7 9(0) = 2 + 20 1 + on 1 + 80 and = \$ (mel) = + &c 1. * \$ (0) + 2 \$ (0+1) = 12 + x + x + x = x ex 1. \$\phi(n) = \frac{1}{2} - \frac{1}{2} \phi(n+1) = \frac{1}{2} \frac{1}{2} - \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \phi(n+2) 1 美面 + 10 1 1 1 1 1 1 1 1 1 + 355 Control orlandianti

Extent 1+ & for + & for + & for + as 1. C 1 + x e 2 + x e 10 + 3 e 10 + &c. The coeff of a 17 1/2 for for for the 2 + 30 x2+ 80} The to the second exe = exf1+ = for+ = for+ or for+ or f. 1 fee = 2 } 1 + n fait n(n-1) fee + n(n-1) fee + och Sol Defferentiating both sodes in III 3 with regards to a we have a sa a story = foot a fort at fort &c But x = = x = 1 + = for + = for + x 1 Exactions the coeff to of a" we get the result. V. D. The above result may be written their ter for two for for There are successive different and the land of the 5. If far = \$(0) x + 0,00 x + \$(0) x8 + + \$(0) x mis Then \$ 100 + Part + \$ 12 + 81 = 127 Sol ext pin = ext don = + pop =+ + ... + pop = === Egerand to coch to of x in both hides are can get

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\$ 1 (n-1) = (2+1) - (d + a (n-1) (n-1) - 2 (n-1) (n-1) - 15 1. 1. (1 - 11 1) (1 - 1) (1 - 1) - 8,C Sol for = \$100 = + \$ (0) x + + \$ (0) x + 4 (0) x + 4 (0) = x1/6x+6x+6x+4x+ By equating the coeff to of x "+1 we can got the result. 7 g (m+1) = 12 g (m) + g (m) Soli 4 (000) = 10 { none (n-1) (1-1) "++ (1-0(1) 1) (1-1) "+1 dis to a x + x the coeff to and the index of x of that 10) = x +3x + x3. term together with the coeff f. of the +(x) = x +7x + 6 x 3 7 x freeding one. + (1) = x + 15x + 35x 2 + 10x 4 + 25 + 3) = + +3/x+ 90x3+ 65x6+15x+ x6 1 0) = 1 + 03x + 301x + 350x 6 + 140x 5 + 11x + x7 +17 (m+1)(+1) TO (m+1)(m+2) - FOY A SET SE show that # (m) = # (n) = + # (w) a + + p (w) a + &c Shew K. T. of "(") is to coeffet of E in the lexue

sol Thom TIT 6 WE have fighte (a+1) - 12 " - 12 18 1 (a 1) = the the coeff of the com } except the extra of extra of the the coeffe of the conce (ex)? d + (x) = 1 + 11 + n(m) + (x) + n(m) (m) + (x) + 8x Sol Differentiations both Scales in III 3 with regards to deand then differentiating the result with regards get the result. I for to fait + Standa = to and + Bo on to co 1 = 1 (n-1)(n-1) f (2) + 16 n(n-1)(n-1)(n-4) f (2) Sol. Integrating both Section III 3 with regards to x have to (1+ to for+ to for) + to for) + och = = + x + E Stordx + at Stordx + at Stordx + ac Equaling the coefficient and in both sides ar our get the regulo. 如外台十七十七十台十四十七年 Show that 1= 1 1=2, A=5, A=15, A=52, A=203, A =874 1 = 4/40, A= 211/17 &c sol 2 1-11, 5=1+2-1+2, 15=1+3-1+3-2+5, 52=1+6-1+6-2 +1.5+11 +01=1+5.1+10.1+10.5+5.11+52 BC If - 1 - we - to show that 1-1, + 0, 1 = 1 1 = -2 4 = -2 4 = -2 1/2 = 50

$$| \frac{1}{1} | \frac{$$

1 Fin (2) - (2+6) Fix = 4 (2), then you that they year you the These are Successive diffe a, b, c, d, e, az dz Le nus the previousteur 62 Cz a3 63 being Subtracted from Each term and an being equal to LX F. Col. Cont. 9,001 (a) = (a+al) = 1 (a+a-16) + (a+a-16) - (-1)/2 1)(1-3) (a+11-34) +- 30 Costs: op (nt) = (0+26) op (n) + 6 of (n) or in words thus whate under each term the product of a only, a being the in dex of x, and the coeff! of x of that term together with be times the coeffe of the preceding one. F(x) = (a+6) x + 6 x4 F(x) = (++1) x + 6 (and 6) x + 6 x3 Ex = (a+1) x +6 (3(a+6)(a+26) +6 (x++ 36 (a+16) x +6 x 6 F(1)= (a+6) x +6 (ca+6)(a+16) +64 (ca+36) x++646(a+16)+14 * x3 + 263 (20156) x6 + 65x5. Exil. Show that part is the coeff of the in extrate) (eax 1) ? 2 Phow that 1. 13+12 33+32 + 53+5 = &c = 0 111, 17+16 + 1+26 + 27+36 - 6x = 16 - 36 + 17 - 75 + 6x = ルル·指一龍+は=(1-位+起-位+をc)-4.

+ (NTI) A+1 + (+2) A+2 (N+3) A+3 + Oce = F_(N) then Fat Oct = 1 F(m) + to For (sett). Sol. F. (01) = 2 14/2 + (n+1) 1/2 + (n+2) 1/3 + 0xc the sum for one value of a we can sum up the Sewes If x no log x then x = or + (n+1)0 + n=1 + (n+3) + ore Sol. Suppose for = 1+ mu + nlyton + nln+20 + me = 1 + multiply for by form we get f(m+n). for = |full for Let ful = x then x" = f(n). 100-1 when n=0 = 6+ = + 3 13 + 00 一首一大大地十一一十一一一 went of when n = 0, = & or logx = & oux = a logx. NB. The minimum value of Exist. If we for e. If a 7 e it is convergent to " if a ce it is divergent Cos. e7 = 1 + 2 + x(x+2m) + x(x+2m) + x(x+4m) S.l. Write expression of the in IN 2. W. B. In a similar manner we can prove that of a 9 2 - 2 +1 =0, then 20= 1+ 20 + 2 (n+2) a+ + m(n+2)-21(n+3)-21 - 1 (n + 4) 1 (m+4 b= 19) (or +4 p-19) at + 80.

2m = 1+ m + m m+ 2m-1 - m (m +3m-1)(m+3m-1) + &c 2. (1+11-4x) = 1+2x+ 2(2+1)x+ + 2x+ 4(2+4)(2+4)x + 3x + 3x 3. Expend x in turns of a in each of the following i xa = e. + , Sol a log x = # x. In x = at , sol. a logx = ± x loga . . Logx = ± toga The x = a e +x; sol. Let x logy, then logy ay +1 IV x = a = " , Sol. Let x loga = log 4 then logy = 4 thea. V x = a; sol, Let x = by then y = a = y VI. xe = a; sol. Let is = logy then logy = ay #1 in a + 2 = 2 = 2 to solo or the squal to V then x = V. 11 607 \ x 60 [x 60 [x 60 (x ... ad inf.)] 1. ± 60/2 | x ± 60/2 [x ± 60/2 (x ± 60)] { 2. I fore work and for for the we see that (m) - by x plan, n+1 = n of (n, n).

Ha to pose let general and the second second second second The second second second · 有一年中心(1982年中年)(1 The same of the sa 是我是我的人 第一年十年 · 生工工工 大学的 · 五年 2011年 1911年 19 公共5X160年 村田市

cuse I of is possible 1/4 (15 H) (1-log 2) 3ais. The by TX I my see that n 4. (a, n) + 4 (x+1, n+1) = 40(x+1, n+1) + 46 (x+1, n) Case II I con ougative the terms in R. 4.5 Continue as for as the term is dependent of 11- 6/x) WB For is convergent when a Tente according nonio partire a noc. (n) 4/(a, n) + 4/4, n) + 4/6, n) + 30 do for so the lines cease to continue in poly = 70" Sol. Litt. 5 = of (1), when x = 1 11. e Face) when x = 1 0 e Face) Cons. e = (1-10) {1+ 2+10 + (x+2n) 1 + (x+2n) 3 + 30 } M. D. gel, n) = 1 \$(2, n) = 1-60x + winto p(3 11) = 0-69x14 (1-67x) + (3x+2)(1-(022) 8×+2 n3(n+1) (n+2) \$ (0, x) = 7-69x \$1, 11 } (1-logs)2+ (1-logs)3 0-19x)3 + ben) (n-2) (n-2+ m-1) + (1- Cayx) 9 (2, 14) = (1-logx 4 $\phi(0,n) = \frac{(n-1)(n-1)(n-1)}{(1-\log x)^{\frac{1}{2}}} + \frac{(n-1)(n-1)(n-2)}{(1-\log x)^{\frac{1}{2}}} + \frac{2}{(n-2)} + \frac{3}{(n-1)}$ $+ \frac{(1-\log x)^{\frac{1}{2}}}{(1-\log x)^{\frac{1}{2}}} + \frac{(1-\log x)^{\frac{1}{2}}}{(1-\log x)^{\frac{1}{2}}}$ in ascerding powers of history

X4·基本省台一等属于各份一处 and let or = 7- 6/2 then An - m(n-2) An = no } 7 A, An 1 + non 1) A, An + + Resolution of Ans + De f the last tim being The last or all a recording as resided or the male play the power and the coeffer to 2305 + 20 to down and (0 1) times the coeff to of the preceding town where a isther the preceding town where a isther a lost of the suffer 16 = 945 n" + 1260x" - 700 m9 + 196m8 + 14x7 4 = 103.75 m (2+17325 m + 12600 m + 5068 m 10 + 1145 m 7 + 120 m 18 From take not tomes the cont i for log a take to Comes the souff! and generally for an cake Sol fut I for a Then a = et Ket 2 = by

Then of the copy = - h By 0 1 19 2019 III & we have \$ = 1 = 1 + h - 1 h + 2 h I the sum of the coeffe of An = (1-1) " the coef

Sen (a) = 02-1, Fa = 8-1 Fa) = 8-1 701 = 8-1 Fa) = 8-1 8086 Now let us try to find the expansion of The 11) In ascending powers of x (4) In ascending powers of 17 } = Fox = x \$ (0) + x \$ (0) + x \$ \$ (0) + uc = fai + n fax + n fax + n fax + n fax + be . then log [+ 60 } 1 + 607 (1+ ... + 60, 1+2) }] logare thems being = En (1) = x \(\phi_1(-n) + x^2 \phi_1(-n) + x^3 \phi_2(-n) + &cc = for - n for + n for - n for + be Sol, We have e Fig. = Fix). i. Fig. = log | + Fin $E(x) = x \quad i \quad E_{j}(x) = (a_{j}^{\alpha}(+x)) \quad i \quad E_{j}(x) = (a_{j}^{\alpha}(+x)) \quad \& \quad \& c$ Cox F(0) = x and f(x) = x $2. dF_{(x)} \div \frac{dF_{(x)}}{dx} = 1 + F_{(x)}$ Dreffers treating to the Souls with regards to x we have LEW HERON MENON

SOUND (R. & WORKERS) FOR STATE OF FREE PIECE But from to lear Fais X ... Fais . Con 2 21 (4 (0) - 9 (0-1) = (0-1) 4 (0) 4 (3-1) + (0 (3) 9(0) 4 (3-1) + 61-3146) 4 (2-1) + 84. Sol Faix) 1+ Faif = F. (x) . How equals the conf/ 8. of x n+1 Cot 3. dfor = = - 1/01 + B2 for - B4 for + B6 for - be Sol From II 2 cal we have F(a) = |1+F(a) } | 1+F(a) } | 60/2 { 1+ 2 + 100 + 86 } = Far + For + For + Ox & lenno. = \psi(x) + \int Fandn - \frac{1}{2} Fandn - \frac{1}{2} Fandn - \frac{1}{12} \frac where you is a function of x independent of 2. Equaling the coeff to of a we have d + al = 2 - 1 fa) + B, fa) - B, fa) + B, fa) - 8. Sol. Sind when n=0, logy+2 din + &cf=0 1 4 (a) = \$ far + \$ far - B far + &c.

$$\begin{cases}
1 + 2\left(\frac{\cos\theta}{\cosh\pi} + \frac{\cos^{2}\theta}{\cosh\pi} + \frac{\cos^{2}\theta}{\sinh\pi} + \frac{\cos^{2}\theta}{\cosh\pi} + \frac{\cos^{2}\theta}{\sinh\pi} + \frac{\cos^{2}\theta}{\hbar} + \frac{\cos^{2}\theta}{\hbar}$$

× (\frac{\sqrt{3+\sqrt{3}} - \frac{\sqrt{6\sqrt{7}}}{\sqrt{3}+\sqrt{9}}\frac{12}{\sqrt{3}+\sqrt{9}}

in the ton the ton the ton ton - but $\frac{1}{2} \int_{a}^{b} dx - \beta_{x} \int_{a}^{b} dx - \beta_{x} \int_{a}^{b} dx = \frac{1}{2} \int_{a}^{b} dx$ $\frac{1}{2} \int_{a}^{b} dx - \frac{1}{2} \int_{a}^{b} dx - \frac{1}{2} \int_{a}^{b} dx$ $\frac{1}{2} \int_{a}^{b} dx - \frac{1}{2} \int_{a}^{b} dx - \frac{1}{2} \int_{a}^{b} dx$ drat for dx and anyworld on for for dr Sol. In II. Weete Fix for x then FAIR - FIFE WY But Fight = Fin + 1 dFin + E dFin + 84 and [1500] = 500 Fn + (50) +12+18,00 + 00. Enting the coeff of for we have d Fion of & The that Fix as = 9 and File = I then we have 14 = +(y) 12 = +(y) 24 d From = for d From or d From = for d From de Equating the coeff " of not we have on fire tont an Coll. If fan = (=) "{ 4(0) x - 4(0) x + 460) x - &c }, then 1. " 40 (m) = on 4 (m-1) 4 (1) + (m+1) 4 (m-1) 4 (1) + (1) 4; (n-1) 4, -10 + (n+1) 4; (n-1) 4; (1) + de 11. 4 (00) \$ 100 { 4.600 + 4.600 + 4.600 = 800} I for fourth the neff to of the power the creft of the First by trapents

$$\frac{1}{4n^{2}} + \frac{1}{n^{2} + (n+1)^{2}} +$$

count to two results C. 2 (41) 42 11 7 3 4 50 4 4 4 42 - 73 442 T DE 4 61 - 80 solo Equate to eaff 5. of x a in It 2 con 3. 4. fal = (+x) f ((y(+x)) Set. In II wester to (les 2) for x , then F, (x) = log (+2) + 12 + fleger 2) + 12 / 860+x + 00 1. - E. 10 = (+x) e a f f log (+x) + a f f log (+x) + xx But & to 10 - 1+ to a - 1+ x + 2 far + 2 far + to a in (+2) + 1 (1+2) + 1 (020+2) + 1 (05 = (+x) + x for 1 + 20 E along the coeff " 1/2 + (21 = 0+2) \$ 1624+01 I The server of the coeff to of the order terms } in \$60 = 1 The sum of the coeff to of the odd laws for ago - to Sol. The - c - and F (1) c log (+x) Equate the coeff ?. iii. for = 1 - 12 + 28 - 180 + 8640 - 2720 + 44 $|V_{-}(x,y)| = |\hat{u}_{+}(x,y)| + |\hat{u}_{+}(x,y$

9 39=1 ¢ (12) p 1 d (ca) = 12- 18 the (20) = 123 - 510 1 La = 12h - 12h + 1/2 - 1/2 6(40) = 15 1104 + 891 - 910 + 110 + 4320 $\phi_{7}(n) = n^{6} - \frac{19\pi^{5}}{20} + \frac{17570^{5}}{216} - \frac{128n^{3}}{740} + \frac{91n^{2}}{2520}$ 6. Vin=1 光的一十二十分(七十分十分) 火(かしし)= カイナリー (生+生ナイナリアを)-(生ナケナ・ナケー)-女士を cor. If I = = y and (1- nx) = Z, then F(x) = y + 3 Log x + 43 } (Log x) + (-60 2 x) - x} + &0 sol apply the above results in Il. Ex. Show that for for = for-for +3 B, for-sp, for+be Sol From I 2 Con 3 we have far = x - & far + B, t, x) - By fa) + B fai - De Differentiating both sul multiplying the results by far we have for for = 1,00 - \$ 1,00 + 10 + 10 + 10 1,00 1,00 - 12 for the +00 10 - 1 (0) +3 By for - 5 By far + 40 by 5 3. アルカリナルライン・サモダ キハナルニダーン 明 6 も 3 (を) (年至 + 1 また ま (を 4) = (x+0) (x 4) = (x+0) = (x+0) = 4 2 3 ランドルトリーナ(=分)*=カナリ(=分)*コイスナシ(=分)

$$\begin{array}{l}
2 + lgn + \frac{2\pi}{11L} + \frac{n^2}{21L} + \frac{n^3}{312} + &c \\
= e^{2\pi} \left(\frac{1}{2\pi} + \frac{1}{2m} + &c \\
= \frac{1}{2\pi} - \frac{1}{2m} + \frac{1}{2m} + &c
\end{array}$$
(from the (e^{2m}-1) + $\frac{1}{2\pi}$ (e^{2m}-1-2m) + $\frac{1}{2\pi}$ (e^{2m}-1-2m) + $\frac{1}{2m}$ (e^{2m}-1-2m)

1. 71 fach) - for = 1 for there かきゅうのーラッキーサルイカー、電子があり十年んかんして 2. If forth) + f x) = h p(a) then 十四年 等 的 (1) 日本 (2-1) Sol. If we write of fre par we see that the coeff to in 18.119 of III I we the woeff to in the expansion of the Again, if we write is for parin VI 2 we see the Coeffee IN II 2 are the coeff to in the expansion of the ou 3. 处于后中一中的一部并(中午人)十中(不上) 十 (n-1)(n-1) \ \psi(x+2k) + \psi(x-1k) \ \ \frac{(n-1)(n-1)(n-1)}{(n+1)(n+3)(n+1)} (\$ (x+3h)+\$(x+3h) + &c there , 1 14 forth) - forth) = depto , then -+ (a) = (50) + (50) + (50) + (60) 11. If f (+16) + f(x-L) = 2 \$ (a), Then +()= Fart + to Fart + 13 Fart + 15 Fart + 200 + 200 4 / 45-A) + K far = pa Let TO + 10 (4) V(K) - A + (0) W(K) (4) 1/(10) + 2 #(10) 1/(10) 1 M/(10) L. Cherry Sol 2 18 + 17 than far =

$$\int \phi(x) e^{-nx} dx = -e^{-nx} \left\{ \frac{\phi(x)}{n} + \frac{\phi(x)}{n^2} + \frac{\phi$$

4.00 Con 1 12 2" K + 3" K + 3" K + 5" K + 50 K = UKHIJMEI ATT THE WAY WE IN A STANCE THE THE STATE OF T Equale to saff to of 2 " Cor 2. $\frac{4}{4}(k_1) - 2 \frac{4}{4}(k_1) + \frac{2(4-1)}{12} \frac{4(4)}{(k+1)^2} - \cdots + (-1)$ $= (-1)^{n+1} \frac{k}{4} \frac{4k}{4} \frac{4k}{4}$ 1/2 (10) (KH)2 Sol waltiply to the sides that by ext K, then we see that the hought to reform to · C+ 3. 1/ 4. (4) = F(6) - F(6) K + F(1) K = F(0) K 3 + C4-The son - England 11. Fand + on Fand + on (m+1) + (n-1) + ···· + 10 to 1 Fair = 10 Sol Equate the coeff to of K in II 4 coul sol Halogy both sides in 7 4 Col by (+H) 24 and then Con 1/2 (4) = 10, 4/4 1 = End (200) Book son the sum of the property with the sum of the property with the sum of the property with the property of the prop MAKE TOK + as term and its on if I im - 1 301H - 302K3 + 57K - K - From al 大学·大学·阿尔二克·阿尔兰中国2257年1276年14

 $1.B_{2n} = I_{2n} + (-1)^n (F_{2n} - 1)$ where I'm is the newest integer to Bin and Fin is the sum of the reciprocals of prime nos next to the factors of an including unity and the number diself. 11. The numerator of Bn is divisible by the great - est odd multipleon prime to (2"1). In = I1 = I4 = I8 = I8 = I10 = I12 = 0. 14=1, I16=7, I18=55, I20=529. 122 = 6192, I24 = 86580, I26 = 1425-5-17

con y (x-1) to the integral part of 7-7 | Lay - 10+1 - Boot San 27 sol c' + e manual we all ; --Defferents dang nternes we have データーサーンの日本 中3でのアースアー サータ E writing by the fore we have 1-x + (1-x) + + (1-x) + & C = (10) + out + & C Applying I 4 con 1. we at once get the world. Ex 1. Show that f (2) is the torn in delin dent of in in 中田十二十四十二十四十七 If on In France is the cold to of xnt in extension 3 - GOLITA WW - 22 HW + 25 YW & 8 1+18 and + HE = 1 (K+1) - 1 (K+1) + 1 (K+1) (K+1 If no even show that Yu(k) is divinile by V-15) 1 1 3-11-2 (5,-1) + 3 (5,-1) - 8 = Con 7 n -+ 2 + 72 + de Kin The And I rear HAT -+ a(a-1) (n-1) = 8.0

3392780147+6960 1 + 247 + 3173 + 45 1+ 240 (12 + 27 1-12 +2507636250 {1+240(132+4)} {1-504(152+4)} +395-45-0000 {1-504(15x + 25x + 40)} 1723168255201-171864 12 + 212 + 312 + 4 1-504(12 + 212 + 40)

An - Mik to the Kt - tol to in terms 1 + + + 1 1082. 京武, 二十二十五至一格益十月6年一人 sol, wiels of for got in TI. 是一股電化 W+ Po 11 (13-11) - Be x 6/16-11+6x6 Sed Jan - Fin con 22 log 3 - - 2 - Ba 24 + Ba 24 18 1 18 Set toglex is = Set dx cord log 2 +1 = - 1 - 12 216 (2"1) + B, x + (2"1) Set. 10/(211) = 10/(212) - 10/ Fr J CARS &c are so small that to of the say There can maybe neglected shed that 1 2/ c to tel 2 + e Ptath then P + a + x + 2 + P+9+11 0 Chartettes of the the Bash as Stap 4 c Rial DY 4 1 K = U

$$B_{22} = \frac{11(57183 + 20500)}{138}$$

$$B_{24} = \frac{236364091}{2730} = \frac{19.1617^{2} + 10.4208 + 34.550}{2730}$$

$$B_{26} = \frac{8553103}{6} = \frac{13(39293) + 265000}{6}$$

$$236364091 + 131040(\frac{123}{1-2} + \frac{21}{2-2} + \frac{2}{2})$$

$$= 49679091 + 240(\frac{12}{1-2} + \frac{21}{2-2} + \frac{2}{2})$$

$$+176400000 + 240(\frac{12}{1-2} + \frac{2}{2}) + \frac{2}{2} + \frac$$

(ertely ent = 1 10 = 2) = (ert + era : 12 = 2 ers + ort 2) PLOBAR RIESTA アナロナディディディー P+R+R+5+7 = 4: 1 whole with at for a in the 415 Fream the native of the coefft we not hat by = 1 Car (2 m+1) By = E By By 12 10 + 2 By A 1 - 4 Alen 3) + &c the last term being & Bur Burt 15 (B) areacting as nis odd overcom Soit cot 2 - (1+ deolx) by water the conff !? 加三次作品。由一台,在一台八个一面一个 I do a dosec x = for the x cold of the x total of the of concern with a color 一种一个一个是一种 colifor 2 = cot x - 2 cotex 是 400×640条款 報 B 许是 二 B. C

$$|\{c_{1}, b_{1}, b_{2}\}| \leq a_{1} t t t norts = of the sign f(x) = d$$

$$|\{c_{1}, b_{2}, b_{3}\}| \leq f(x) (1 - \frac{\pi}{4})(1 - \frac{\pi}{4})(1 - \frac{\pi}{4})(1 - \frac{\pi}{4}) = d$$

$$|\{c_{1}, b_{2}\}| \leq f(x) (1 - \frac{\pi}{4})(1 - \frac{\pi}{4})(1 - \frac{\pi}{4}) = d$$

$$|\{c_{1}, b_{2}\}| \leq f(x) (1 - \frac{\pi}{4})(1 - \frac{\pi}{4}) = d$$

$$|\{c_{1}, b_{2}\}| \leq f(x) = d$$

$$|\{c_{1}, b_{2}\}| \leq$$

E,+ 花E,+ 花E,+ 花E,+ 花上,+ ** AL ELEN 1 (217) - 2 ENELS + 2 ELEN 3 (200-2)(10 - 3) + 100 the last term is all 2 Englished to the continue (En) (mi) I'm dlank " sep x. by a to the coeff to of x in E, -1 Es-1, 6, = 5, F, = 61, E, = 1885, E, = 50621, E13 = 1701765 E1 = 199360981, 816 8 1. 至之 = (- 禁)(1- 禁病)(1- 禁病) Sol. The cooks of the equation sink = 0 are ± 7, ±24, ore and sink a done 1. In a Simelar mainner -Cosx = (1- 編)(1- 編)(1- 編) (1- 編) (1-1. 1. 1 = ()+ 3/1)()+ 2/1)()+ 2/1) KE 1 2 1 4 1 (1) (1) (1) (1) (1) (1) (1) (1) 100×4 500× = (1+ 在秦)(1- 等元)(1+ 等元) (1+ 54 (04a) = (1+2) (1 * * a) (1+ * 4+a) ((1-1- 清報)(1- 3-1)(1+ 新知)(4 (1 - 32 a) de 上的(十分。)(一方。)(一方。)(

Sinx
$$dx = II - R \cos(\alpha - \theta)$$
.

Sinx $dx = C + \log x - a \sin(x - \theta)$.

Where $n^2 = \frac{12}{2a} - \frac{12}{2a} + \frac{12}{32a} - \frac{12}{42a} + \frac{12}{4a}$
 $R \cos \theta = \frac{1}{2} - \frac{12}{2a} + \frac{12}{2a} - \frac{12}{4a} + \frac{12}{4a}$
 $R \sin \theta = \frac{12}{2a} - \frac{12}{2a} + \frac{12}{2a} - \frac{12}{4a}$

If $a + \sin \theta = \frac{1}{2a} - \frac{12}{2a} + \frac{12}{2a} - \frac{12}{2a}$

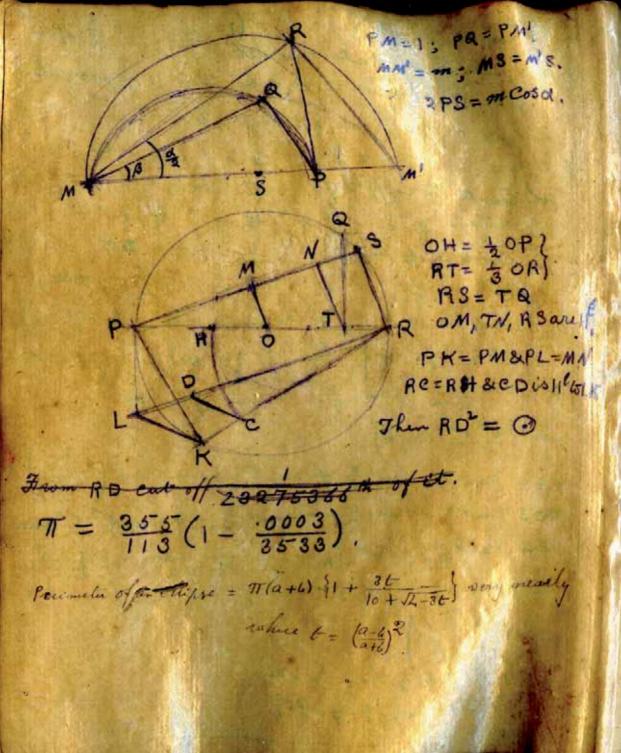
If $a + \sin \theta = \frac{1}{2a} - \frac{12}{2a} + \frac{12}{2a} - \frac{12}{2a}$

If $a + \cos \theta = \frac{1}{2a} - \frac{12}{2a} + \frac{12}{2a} - \frac{12}{2a}$

Then other relations $a = \frac{1}{2a} - \frac{12}{2a} - \frac{12}{2a} - \frac{12}{2a}$

Then other relations $a = \frac{1}{2a} - \frac{12}{2a} -$

1. b. If we write its above usults as the posselle to no find (1+1) (5+12) (5+12) (1+1) 20 sol. Equate the coeff to of x in VI & Ex 1. to corex = of + # - The Total The Her ex tank Cot 3 'tan' = + tant = - tan = - &c = last = cosera Eta - Com Te a - do - tan fine Term 如本 所有大作的为什么一个是一位的事人及CE 李·李·李·李·李·泰· 小村 小寺・寺・寺・寺・台の



CHAPTERVIL The think the state of the stat 11 - - + 3 + + 5 + + 70 x + Ac - 11 tan The III THE TEXT TO SEE THE TEXT COSCOTION OF EXT W. 产业一年来并产业一处二至sec 型。 Ext. 1+x+ + ++x+ + 3++x++ xc = 2x + 2x + c 7x 2 that + that + star + &c = 7 1 1/2 1 2. 1 - 1 + - 1 + - 1 + &c = (277) 2 Bin 11. - pn + fin + fin + &c = (2221) #2m Ben " 11. fra - 2 + 32 - 400 + BC = (2522) # 1 B20 14 - June + June + 80 = 17 cm 1 cm 2 cm + 60 N. B. From Chap. II we know the walnes of Box for enough in the and En for odd integers we know that By and Expan be come to whom in = a that the values of he are all fractions though ? 2-1) Enis an in they to down and there of En use all on tigue a being odd, in late I cases abeing posi fine on the us try to interpret some midning for the and the whom or is position integration to many

14 l = (0-6) cos f = (0+6) trans and The to the princeton of the alleged then $\phi = \frac{3\sqrt{at}}{a+6} \left\{ 30^6 + 6^0 18^1 49'' \frac{(\sqrt{a}-\sqrt{a})^6}{a+6} \right\}$ - 10 10 83" (a-6)2 (of in the Sigure). - 3 \(- 900 = \frac{406}{6+6)2} \(\frac{12}{0+6} \) \(\frac{2}{0+6} \) \(\frac{2} \) \(\frac{2}{0+6} \) \(\frac{2}{0+6} \) \(\frac{2}{0+6} \$ = 300 + h(1-k) {50192' - 6032'k} where h. (2-6)

A The See that the second of the see that $3 + 2 + 2 + 3 + 4 + 4 + 8 = 5 = (2\pi)^{+} B_{-}$ From this and can find Bo when my 1. B, = 00, B3 = 378 3, OC 18/4 = 471 12 S/4 DE fractional values of or see they 4 1 - 2 + 3 - 4 + se = (-1) The Box Theom this we can find Bon if n is not negative B=-1, B=-(1+to)(to-to+to-to+to) From this we can find En if it is not magazine E = 00, E= = 2 V2 (1/2 + 1/3 + VE - 1/2+ OC) 二十二年十二年十九一年十九八 6. (a+6) + (a+26) + (a+26) + 60 + 60 + a+1 20+ A B anti B m(n+1)(n+1) (2 + bec prom this we can seem up the recipes cals of poor Sold 1 + 1 1 = \$ (4) - then \$ (a-6) - \$ (a) = a + 4 phy XI 1

(1+ 学)(1+学)(1+学)& = Sinh 2712 - "2 Stock TX Cr5 TIX/3 an inch greater if the diameter be 5000 miles

1-64/49340611 前三0、青二6 \$ 1. 2020 5690 31 B = 17. 19624 5 = 1.082323233 B = 30 B = 39.84953 \$ =1.0X89X7XX 5 = 1.0173430620 展 = 42 有 = 38.035 8 6 Sy = 1.00 8 8 1 1 174 By = 30 By = 20.987.19 Sp = 1.0040 7 735-62 S = 1 00200 839 08 13.2 50=1.0009945781 Ex. 1. Show that when n o (for + 2 on + 200 + 200) nearly and n Sn+1 = 1 fol In III 8 con wrete not for mand I fair war we have Sun, - to - to the the - do. 11 he = = 5 San+1 - = = + + 12 - 100 2577 inewaly. The that Was Bn+1= 1 when n 0. Sol We have Some = (271) most Bores Malliply and I then were land o for se, we 1. De 1 = 679 miles and 21-0. I was now The Bart =1 自一年十年十月2十月2十日十日1日1日 (A) (基本) (基本) 事件 版 + 原干海+年· my componendo sideran.

(-x)(1-x2)(1-x5)(1-x7)(1-x11)(1-x12)(1-x12) 40 = 1 本では サーフローバーン + (1-)(1-x-1)(1-x1) + &-\$ fal = \$ (a) + \$(2x) + \$(0x) + \$(x) + &c then \$ (x) + \$(4x) + \$(9x) + \$06x) + 200 = fan-fan-fan+fan-fan+fan-fan+fan-fan -f(81) + f(01) + f(11) - f(1x) - ke \$ 4,3,5,7, 11 xe one prime numbers, the Ja(a-1) + Jala-12+ Jala-12+ let to setemen + h. $= \frac{\alpha}{2} \left\{ 1 - \frac{2i/a^n}{2(a-1)} + \frac{(ii/a^n)^2}{2(a-1)(a-1)(a^2-1)($ 8 (a-1)(2-1)(2-1)(26-1) + &c where it is a function of a wh independent of n. 2h = 1 - il + 2(a-1) - 2(a-1)(a-1) + 80

在一年十月日本 11 年 年 日 - 12 年 子 1 Tay 1 as Tay 1 ay runders =1+a,+a,+a,a,+a,+a,+a,+a,+a,+a,+a,+a, into prime tacco Corl. 2" 3" 1 5 1 5 700 are prime numbers = for + for + ME OF Som Com 2. 2 1 5+1 5 +1 6x = 52x sol the first we = St 四日 岩井 岩井 田 = 50mm 四日本生女士部十二十二十二十二十二十二十八 hove 2 3, 5 1 8 are note to al member contain - con and number of prime factors - () - Sen . fol sille at con from con 1 after applying VIII ?

27/5 24 + 14+12+24 + 20+20+43 + 30 + 30 + 40 + Ke = 1 cosh 11x/s + 2 cos 11x = 32 - 13 cosh 11x/s - Cos 11x 21/2 + P+n+m + 2+1+n+ - 3+ + sn+m+ * xc + 2" \ = m/s+1 = 14 + m+ + mh = ein/s 1 = 2" + 2" + 2" + 2" } $= \frac{1}{2\pi n^3 \sqrt{s}} + \frac{2\pi}{3n\sqrt{s}} - \frac{3\pi}{n\sqrt{s}} \cdot \frac{3\pi}{e^{2\pi n\sqrt{s}}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} \cdot \frac{1}{2e^{3\pi n\sqrt{s}}} = \frac{1}{2\pi n\sqrt{s}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} = \frac{1}{2\pi n\sqrt{s}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} = \frac{1}{2\pi n\sqrt{s}} = \frac{1}{2\pi n\sqrt{s}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} = \frac{1}{2\pi n\sqrt{s}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} = \frac{1}{2\pi n\sqrt{s}} \cdot \frac{1}{2e^{2\pi n\sqrt{s}}} = \frac{1}{2\pi n\sqrt{s}} = \frac{1}{2$ 1 + 1 + 3n + 3m + 2 + 6n + 1m - 3 + 7 + 7 + 2n 1 1 cm +6n \ (eta) + 1; / -2n+ +9n4 = = = = = 1 24 - 2:2n+ +9n6 + 8/3 $= \frac{1}{6\pi n^2 \sqrt{3}} + \frac{\pi}{3\pi \sqrt{3}} - \frac{2\pi}{n\sqrt{3}} \cdot \frac{2\pi n\sqrt{3}}{e^{2\pi n\sqrt{3}}} \cdot \frac{2\pi n\sqrt{3}}{2e^{\pi n\sqrt{3}}e^{0.3\pi n}} + 1$

where Pina has me member P- Sin 72 ... adving 8. (1 tax) (1+2 1 (4 ax) (1+ ay) (1+ay) to oher = 1, 5,7 be = for 3m + for - for the = 1+ 92 + 94 + 05 + 96 9 + 97 + 42 95 + 311 + 412 + 640 where I soffered are natural numbers an alike Col. + + + + + + + + + + + + + + + = - Sex to af which are alike. Coc 3 12 + 2 + 12 + 12 - 1 & = S. (Sen-1) where 4, 8, 7, 12 see are composite newson. Con taining at least two equal preme number Ex. 1. all that the sum of the recipeocals of all pein numbers is infinite sol From 10 / cor/ we have はいはかはまっている十九日としかにはもちかける the country of the pack of all permit of

when 2,3, 5, 7, 20 pages months is a finite quanting a show that when Sale From VIII TOO Y' love have = - logn where on =0. all prime number show that when med. 3. 24 2, 3, 5, 7, 11 are 1. 第二等 第二第一篇 KE 号 4. Sf2,3,577, 8 40 are natural recombers are natural montes containing an odd no of prime factors shew that 1. 在十年十年十年十年十年 70 11. 七十点十十六十六十六十0c= 1260 方方の経生生生物等十分的學十分的學士 to 18 20 were ent series 2, 3, 5, 7 & c being purne may 10 10 10 10 10 10 10 10 101 + top 1 - top 5 for the to fait to the

f(1) + f(2) + f(3) + · · · + f(h) $= \begin{cases} f(0) + f(0) + f(0) + \cdots + f(n) \\ - \begin{cases} f(0+k) + f(k+k) + \cdots + f(n+k) \end{cases}$ + h f(m) + = f f(m) + = f f m + &c N.B. When n becomes infinite we may night fin and the time succeeding far ifities, e.g. 1+ 2+ 3+ · · + 7 = (+ 七+ 寸+ + 六) $= c_0 + \log n - \left(\frac{1}{1+k} + \frac{1}{2+k} + \frac{1}{3+k} + \cdots + \frac{1}{n+k}\right) \text{ when } n = \infty.$ $= \frac{1}{(1+\frac{1}{7})(1+\frac{1}{2})(1+\frac{1}{3})} - \frac{1}{(1+\frac{1}{n})} \text{ when } n = \infty.$ f(1) + f(2) + f(2) + - + f(1) = xf(1) - x1+hf(1+h) + x+f(2) - x2+hf(2+h) + &c when x becomes unity.

1. +0) + f(0) + f(0) + f(0) + f(0) + f(0) - \$\frac{1}{2} \alpha \ \$ 00 = C+ J+100 d= + 2 for + Be / (x - Be file) + Be f (x) - Bp f (x) + 800 sol gov - 400 - 1 = for; apply VII. I Bil By gering any value to a combe found. A.H.S is not a tennimating series except in some special cases. Conquently no constraint can be found in \$ +01+ Be + ar - By f ar + be crapt in those special cases. If R.H. 5 he a terminates series it must be some integral function of a in this case there is no possibility of a constant (a - cording to the ordinary sense; in pex; for , \$ (1) = far for But for 10 . To is always whither for is national or irrational. .. When you is a internal integral function of (x) it must be divinible by some plothand Consequently no construct but a can exert? Therefore let us tryingere some other meaning for the constant of a server The constant of a series is to constant obtained by completed in the remaining part by facth fully ad hering to the above rule in municular of seeles. The constant of a series has some mys tereous con nection with the given infinite soils and it is like the certify of a body. Mys torious because we pray substitute it for the divergent infinities a Som the constraint of the series 1+1+1+1+100 is - 1/1

121 \$ (3-12) (5-+12 - 51+27) (3+12 - 5-12) (12-12) V33 = (2-10) (17+3/5 - 18+3/5) + (15+1/5 - 11+1/5) (11-3) 145 4 (15-2)3 (57+315 - 53-15/4 (53+15-15)4 (15-10)4

pro the way of - endring the constant is as follows - " Les us take the and 1+2+3+4+5+ the Met Cheils con - second Them C = 1+2+3+4+ Cat 1. LC = 4 +8 +4C 1-10=1-1+1-4+00= (1+1)=4 ・ヒニーた N.B 2. For jundent the sum to a feadle and number of terms us since the sum to be true always and there is any thing difficult in finding of the where heo mall take a any integer you choose find from the result. The sum to a negative number of turns is the sum with the sign changed, calculated backward from cos \$60 = 5 no 12 for as 12 for the given no 15 a Sol, Let Bon you be the coeff 5. of f (2) then we so ψω =1, ψ(2, = 1, ψ(6)=1, ψ(6)=-1, &c 40) 0, 40)=0, 4(1)=0 ac. By V(0)= & But B, 00 in april 0 the by III o car with have II (n-1) isn=1 when he is ton you a Tron 1) Box, you = 1 when 201, 3 400 - Cos 75 はかり十三十三十三日

2 (/2-1)4 2/3 (/3 /2)4 (/2-1)4 2 17 (12-1)8 (212-17)4 2 /15 (10-3)4 (16-15)4 (12-12)4 (12-1)4. 2/2 (53+1/2 - 52+2/2) 2/8 (56+3/3 - 55+3/2) 4 (52+32-51+33) 4 2/10 (2/2+5-2/2+510) (12+5-56+2/10) 4 5/ e-71/210 = F (Jn+1-Jn)2(Jn-Jn-1)2 * \ Jn-1+ Jm+1 - J(Jn-1) (Jn+ In+1) } If e- T/F = F 1- 11- 1/2 then e-271/p = F (/m+1 -/m) (/m - 5m-1), $= F \left\{ (\sqrt{n+1} + \sqrt{n})(\sqrt{2n} + 1) - \sqrt{\dots} \right\}$ $\times \left\{ (\sqrt{n+1} + \sqrt{n})(\sqrt{2n} - 1) - \sqrt{\dots} \right\}$ 8 e-471/F = F (Inti + Vx) 8 { V2x +1 - J2 Jan (Jax1 + V2) } * { V2n -1 - 1 2 Vn (Jn+1-V2) }.

2 Det. 1 series is said to be corneled when it's constant is attended from it, Theorem - The doffounded coeff tof a sewes is a corrected c.e differ + par + far - + fal - flor+ flor+ ... + par -d where c is is the constant of \$111+ \$101+ \$1114 ... 195 Sol In the differential coeff! of put + purt . + pur there can't be any constant. Therefore it should be considered VB If fort for + ... + faither be a convergent serves then it's constant is the sum of the series itself Ex det = while + chip+ cation + dec Sol. det = - 40 to 1/2 - 1 - 1 - 1 - 1 - 1 Letter + dies + bush + sic Ly VIII 2 Wills 2 19 5, be the constant of = 1 then de = 1x (= 5) Sol als = 1x dig = 1x (= \(= \(\) = \(\) . 3. S= dx = log 15 + 5 x 八个一颗 4. [(1"+2"+3"+1"+1" = +) dx = +1 (1"+1"x. of d("+10+3"+0 00") -10(1"+1"+ 110) 一条(市村中的大学)

a so com + m ... (20-11) 812 Sn-10 {(0-22)(m-33) - 5:3.8} + 8xe

8/4 the land then the apule of 3/4 then take to the tend only.

24 is any even no greater than 6. Sg= 120 St the Sate Sate (m-1)(m-1)(m-1)(m-1) Se Sare (m-2)(m-13) St Sm = Book + 41) 3 { 1/2 + 2/2 + 3/2 + 4/2 } + m. (m-9) S10 Sn-9 {(m-17)(n-28)-5.2.7} 1 2 (m-12) Sp. Sm. 6 (m-12)(m-23) - 5.1.6 + m (21-12) 28 8 2 - 1 (m-12) + ...

3. I for stands for the her vation of for and on bethe constant of & first first + fing, then かの)=-タニーリモノのでしている Sol, We know char - 461 + " \$ (0) + x + 16) + KE From VIII 2- 10 have plate of plan = - 6, \$10, = - 6, 860 Ex. 1. Show that log 12 = - 5, x 4 5 x - 3 2 + 5 x + 05 wheel so is the constraint of (for + ton + ton + BIE) 2 = = = 5 x + 5 x + 5 x + 5 x + 5 x + 6 x , where is = for + 6 x + 6 x & B. This is very usaful in funding opter for furthermal h. If ch be the constant of fth) + f(5) + f(5) + (5) Then \$ (=) + \$ (==) + \$ (==) + 1 = 1 + (== =) = n C = f(4)+f(3)+f(3)+...+(4)-ch Sol Let 400 = \$(5) + \$(5) + ... + \$(5-n+1) then 4(1) - 4(1) = 中(点) - 中(点) = 十(元) in us and f(x) + f(x) + ... Her chiper only by more constant; hence of these becorrected they must spen son where ent of file + file + file - + file is C by our sup positi からまして中できまりまいてしていましまいでしている Cor OF # 12 the the reduce the way Sot Par ないのではまること Ex John

5,1,11,55 @0+66) -5-(Q5+64) +10(Q+64)(pu-1+P) (3/24 - 1/2+ + 25 - 10 pt 4 pt) = 0: 3,1,11,33 日午 女4 +3(3+年に)-2(月十年に)=0

19 08 (1-1)(1-1) = P & (7) 06 11 - 11(1-1) 1,5,7,35 (pt Fs) - (q+40) +5 (q+40) -10 (a+10) +15=0

医神经神经 美生工 4 4 - 21 を また C+ 1 は (= 1) を + の 一世 で だい - &c 一一一一一一一一 They to the they towned that the select in a come wand it's sent to internet way of V 6 (at a tag + be) means that the es is a pure de so it to (+ + a + a + is mens that the series is an oscillate Serves (consequent of divergent) or that the screen is a pure de vergent serves whose sum is neterns can at and consequently its constant as and that in both cases be value of the generaling for clion is required ... Here after the serves will and be your onething " and from the of the searce we want for the form of on a sec of the second which is a wife from the least of the before of the state of the secret is only less when the person is the first to expend to the complete to Contract (中国) (中国) (中国) (中国) (中国) (中国) (中国) 100 the protect of a first to the

a, - az + az - 04 + me = a1 + a1-a2 + a1-20+ a3 + 80 a, - az + az - az + x = x0, - x - a2 + x3a3 - x4a4 + sec. = x 21 + x 21-21 + x 3 21-42+ 8xc (when x approxim 47/ 38(1-13/1-8) - Q. 48/ 08(1-0)(1-0) = Q 1,13,5,65:-(日6+京6)-5-(日十年)(日十年) - (fpc+p4) = 0. 1,13,3,39 - (94+64)-3(8+44)+3-(P+44)

we of the parse some of -1+1-1+ the when is becomed to to value is set if on the case 3-0, +03 me to not equal to the series (2, -02) + (2 12, + 14, 02) + &c or tothe sources a- (a, -a) - (a, a,) - (a, a,) - de Tres example 1-2+3-1+ 6+ De wrotz und to the Series (1-2) + (3 4) + (5 4) + SE outthe Serves 1- (6 2) - (4-1) - Oc. 3121 a, -a, +a, -a, +ae = a, - (1/2 - a, +a, -a, +ac) 11 (4,- 12 + az + az + ac) + (6,-6+63 - 6+ ac) = (a,+4,) = (a+4) + (a+4) + a+4) + be Cock (04- az + a, -az + bc) + (c, + b, + bg - bg + oc) = a, + (6, -a) + (6, -a, +16, -a, -16, a, + exc Sol Misser VIII 3 V. we know ay -a + ay - ac + ac = a - (az - az + ay + ac) + (4, -62+4, -62+ 60) + (12 +4, 12 + 201) (6,-a) - (6,-a) + (6,-a) - 80 Ex 1. 3 一场大场一个 + AC = 3 + 支 (19, -0) (19, 19) (16 1 4 4 - 30, Tax + 4/1 (4 + 24, +4, (1) · (1) · (1) · (1) · (1) 一个 N MAN - 1 MA - 44 + 41 19 - 20 + 20 - w) - + (1)

24/16x/3(1-x)(17/3) = Pa-si 26/3(1-1) = Q Q6+ Q6 = 2 (1-3-P3) = 0 3. Q3+ Q3=2(-p--p=)=0 5. R4+女·=2(音·-元+·2 P8),=9. =0 日本 13(日本日) + 57(日本日) + 78(日本日) + 78(日本日) 7. - P(\$6-P6) =0. 日午日 - 34(日6+日6)+17(日2+日2)(年4十7十月 17. - (16 - 136 - 340 - 136 p4 + 16 pg) - 34 Q10+ 210 + 114(Q6+ 66)-190 /2 (Q4+ 54) (======= 十19七日午年()(年4-6-48 196) -4/2(+9+ 19 3-19P3-4P9) = 0. These are true cover for even functions though the signs are changed in mostage ases.

Control of the second of the s and a factor and a factor and a factor try 1-2+3-4 - be les betiteen & and & and I vale 6 / 10 10 + 11 - 10 + to fees believe w / and 3 jels vilue to & very meady. But 2-2/2 +3/3 = 1/4 +3/4 - ac cannot be between 2+ 24 and 2- 14+34 as 35 2. 4 und . 44 6. \$ (a) + \$ (a) + \$ (c) + & c can be constanted in a ing powers of a suy to + 1 + + x+ + 23+ fec where ench of to to the conserves ROSE I When An isa Convergent Sexus (1) If bot Ax+ Bx+ Bx + A is a loca capadly con serves what is required in got But of it is a slowly convergent so an oscilla server convergent of the tot least for on and x que contra suchable to gy so that the state of the s the state of the s (a) and the second seco

\$/aB - P. 8/2 = 4 QL-QL - 2(+ P) - 0 (3 43+5(4 Q) -4(pr-p)=0 3. 前3+94-8(前3+P3) ト28(前1+P)-5を1(1+P)+70=0 5. 7.

本· 等· 是· * - * * 2 7 7 7 + OC (c) or transfer a strent another somes by applying III Text 271 (3+1)(X+1) + (X+1)(X+1)(X+1) al) or lake the recipencial of the serves and tog to make it a expedly convergent series in any way case II When this an oscillating (consugert or divingent) on a pure devergent sees. (1) Let Co be the constant or the value of its generaling functions according as it is jurily division some There the genere serves = 7/3 + Co + Cy + Cy x + Cy where you is a simple function of x a) But if unfortunately to +4x+6,x+5,x+ &c be advergent series find some praction of n (sugla) such that the value of Fa 400, 2+ P2 + 100 may range found and Co-P may rapidly dimens has non Cruses. Then the gener series = = (xx + (co P3 + (g - P2) x) +(-1)*+(5-1)*+4 明明日本大阪 三方はでんじょう かりこ ちょ ナザの

So (Sin x) dx = (2 m-1)(y41) (1+ 2+ 4). So (2 dx = 27 (1 - 2 - 1) 1 + 3 3 x + 3 3 3 3 1 x + 40 = Cos (Sent Vx) 1- 3: 5 x + 3: 5 3 5 x - xc $= \frac{3\sqrt{1+x} + \sqrt{x}}{2\sqrt{1+x}} + \sqrt[3]{\sqrt{1+x}} - \sqrt{x}$ 1+ 3.5 x + 5.3. 4.5 x + 60 = 1 Sin (Sin (Sin / Jx) 1 - 3. 5 x + 3. 5. 5 x = 60 = 3 (3/JI+x +1/2 - 3/JI+x - /2) Cos(2n San-1/x) Sin (2n Sun 1/2) Cos 2n Sin 1/2 800(2 n cii 1 vr) さいしてしてん

1 17 1 (E DEC ((+ 1 + 1 + 6.0)) 1269217.6021 WILLIAM + & = - & - × 67, 127 - &C = \$1 + 2 + - (1 log 500) = WE Collect + By + Ext + Etan + We = 102 + 2 + (B2) - x 16 + + (B4) + x (6+1) + (B) 26/06 1) + 800 Sol. By chapter II From The 1 = 2 - 13 The 26 1 + B 213 2 4 1 13 m 5 26 (12 1) + b= 一种 大部門 一种 三 (1+1+1+20 - 及至(1-1) (1+1 1 5 - + 4c) + 14 x4(11) (13+13 133+dec) - de = 40 - 7 + (B) 20 + (B) = x(x 1) + 20. Now it is sign to find 4. Maylens series = 2 - 24 + 221 - De Here the term excepting & it hopes is 412 1 410) = (42. cot 2. It the the state of the S (1 1 1 2 - (Ba) = 0 - 25 (Ba) 21 - 00 set since a so we the previous theorem we have # 10 1 (4 th) + 8 + 2 - 4 2 1 (B) 28 - 100

Deliver William I have the series to deliver or year - 4(1) - lave thence year Ex 1. Show the line out on the Series = 2 + 18 lay 2 wery neverly 3. 7年時 + 7十月前中 7年11日 + 7年11日 = 6.331009 · 在 7年 1 中 1年 1 1月上,十月十八日 = 27 marly 7. 1. 2 + 2 + 2 + 2 7 + 25 7 + 866 11. 21 - 22 + 22 + 240 02 THE TOTAL THE THE TANK 新一种 35% A 55 35 7 And 138 144 中国家中央十分社员 A RE 80 ac

\$ (15 + 4 (2 2 6) = { \$ (9 5) + 2 = \$ (2 15) } 2 + {\$65) + 2 x4 + (65, 245-)} \$ (x20) {4(===)+2×f(=====)} + { \$ 600) + 2x4 + (25, x41) } = ゆつ) - マダーマグーン) + 3 ゆーんいり. 中の一中はりこなとなりをというをしょう

学 经 美学 + 经 美学 + 84 一种一种种的 大型一个型的一块。一类一块。一块。一块。一块。 8. 1-ax + 1 - 1 - 1 - 1 - 1 - ax + exc to utermo $= \left\{ \frac{anx}{1-ax} + \frac{(nx)^{3}}{1-ax} + \frac{(anx^{3})^{3}}{1-ax^{3}} + \frac{(anx^{3})^{4}}{1-ax^{4}} + \frac{($ Sol, Tax = anx + 12 1-ax = (axx + n+ axx + $\frac{\pi^3}{1-\alpha x^2} = \frac{(\alpha \pi x^2)^3}{1-\alpha x^3} + \alpha^3 + \alpha^3 x^3 + \alpha^5 \pi^3 x^6$ 1-axi = 1-axi + no + a no 26 + a no 28 + a on 6 x12 &c &c &c &c &c &c Adding up all these is on terms we can get to result Tax to Taxe to Taxe + be = 1 = + (acris + (acris + (acris + acris + acr and the water the same the way 长,一大学的一个 二人の一般を表現を表現を表して、

CHAPTER TO THE TOTAL PROPERTY OF THE PARTY O sol The comments some is found by opplying III. Let of to the sent to since of the good must be directly by a. The left of a to a - the many way for the good The Grand Constitute of the second control o 1. (a+1) + (a+x4) + (a+x4) + (a+x4)= L'(21) Set (1-21-1/2 = 1-24-111 + 1 + 2+ 200) = (1+2+1+24) 18 サルイナイナイナイナル まっぱんじょうしゃくしょ という Col. (2 (-) = (1-2) Bit Con (1) 211 のかし、中では、コンナモノーナヤーヤナ、ナコーはカートル・ニー = 1 2 (19-18 +18- bu) + (2- 17) Bask continues 1 By - S - S = (27) Bar the way the war and the progration when it is Sol. The control of the total days come of 1" + total to 到。此地种一至一些型 Since the Sea to universally written fore 1. B. 2 = 2 8 1 B. 4 = - 48 - 3 B-6 = 487 3 B 18 = - 887 &c

If
$$f(x) = \frac{1}{2} \frac{1}{p_{n-2}} & \phi(x) = \frac{1}{2} \frac{1}{q_{n-2}}$$

Iten $f(x) \phi(y) = \frac{1}{2} \frac{1}{p_{n-2}} \phi(p_{n-2}) + \frac{q_n}{p_{n-2}} f(q_{n-2})$
If $g(a_n + a_{-n}) = a_0 + (a_1 + a_{-1}) + (a_2 + a_{-2}) + 3ca$
Item $g(a_n + a_{-n}) = (b_n + b_{-n})^*$
 $= g(a_n b_n + a_{-n} b_n) + \frac{1}{2} g(a_{n+1} b_{n-1} + a_{n-1} b_{-1-n})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-2} + a_{n-1} b_{n-2}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-2} b_{n-2})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1}) + \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_{n-1} + a_{n-1} b_{n-1})$
 $+ \frac{1}{2} g(a_{n-1} b_{n-1} + a_{n-1} b_$

(UN) 13/4" 242 for house Ber Manly-no. 4. \$ B-1 B + B + B + on \$ = 51 E1 E 1. Est = 17 Lit. VIII and the that water and 4. Show that 71 (to = 1 + 1/4 + 1/4 + 1/4 + 24.C) = 101 + 3/4 + 5/5 + 7/2 + 6/5 = 11 Va (V1-V1+V3-V4+V5-24) by VIII 5 + V4 = 2 (242-1) # 17 18 6y TX 3 1 - 1 14. = 等恶(1-元) (1-元) (6. Show that when a heading finate 1. VI(x+1) = Cor 1 12 + 12 + 12 (= (41)(前一旗十篇一部)。 は、サイヤーなりのナモルナー(ハンバナイン・ハーナン) = + 1 7 + 20 + 300 + 604 + 40) 111 元 10 mm (1+元)(x+元+元 (0+元) 1 903 + 1502 + 1

Je sec Tx Sech Ty 3 Sech 37 x FSECH STY - NO 18ed 77 - 38ech 37/x
12+42- 32+42 3 Sech 3714 + 1 Sech 773 4 577 - AC 3-76 I Sec T Sech Ty. \$67) - \$627). = x { \frac{1}{3} - \phi + y \] Sech \frac{\pi y}{2x} - \phi \frac{(3y) - \phi + 3y \] Sech \frac{3y}{2x} + (6-7) - \$+5-4) sech 5- 74 - ac } + 2 1 - ptxi) - ptxi sech TZ - p(3xi) - p(3xi) 3 TX + \$(5xi) - \$(5xi) sech 5#7 - xc}

the second of th 5. The planning If med the walnut of the governating for the army of from * 1 por + 1 2 1 mm + were x = 4(0) + 600 = 4(0) Sol. Thogever Souls : (中の) インツナ 世 インマー はは メニテルの人 = \$10) (1+x) + 1 \$60) (1 x) + + + + + (0) \ (1 + x) \ + = (1+x) \) # 810 + 60 = \$60 + \$ \$60 + \$ \$60 + BT A BO + BO - \$60. = \$ (4). Cor. When 2 0 \$ 10 + 400 + 400 - \$10) Solo west -1 for the in the whom there were Ex Let 400 = in Sen II there \$64 = The when 2 = 0 = 5 = 520 + 570 - 157 -+ bet = all the opening as day of tantoo = ?. Ex. 1. From = On Shaw that 2 Sy them = - 1 + 1 - 1 + 40 = 100. マートルナラ はれまでいるで マニーデートレー ディストリック the the state of a sold and a state of it is the will see fine of the

$$T'' = \cot \pi \times \coth \pi \times$$

$$= 1 - A\pi \times \begin{cases} Coth \pi + \frac{2 \cot x^{2} \pi}{2^{2} - x^{2}} + \frac{3 \cot x^{2} \pi}{3^{2} - x^{2}} + \frac{3}{3^{2} - x^{2}} \end{cases}$$

$$= 1 + 2\pi \times g \begin{cases} Coth \pi \times \frac{1}{2^{2}} + \frac{2 \cot x^{2} \pi}{2^{2} + y^{2}} + 4e \end{cases}$$

$$- 2\pi \times g \begin{cases} Coth \pi \times \frac{1}{2^{2}} + \frac{2 \cot x^{2} \pi}{2^{2} + y^{2}} + 4e \end{cases}$$

$$- 2\pi \times g \begin{cases} Coth \pi \times \frac{1}{2^{2}} + \cot x^{2} \times \frac{1}{2^{2} - x^{2}} + 4e \end{cases}$$

$$(\pi \times)^{2} \cdot \frac{Coth \pi \times \sqrt{2} + \cos \pi \times \sqrt{2}}{Cosh \pi \times \sqrt{2} - \cos \pi \times \sqrt{2}}$$

$$= 1 + A\pi \times f \begin{cases} Coth \pi + \frac{2 \cot x^{2} \pi}{2^{2} + x^{2}} + \frac{3 \cot x^{2} \pi}{3^{2} + x^{2}} + 4e \end{cases}$$

$$T'' \cdot \frac{3 \cdot \cot x^{2}}{2^{2}} = \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2} \pi}{3^{2} - x^{2}} + 4e \end{cases}$$

$$T'' \cdot \frac{3 \cdot \cot x^{2}}{2^{2}} = \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + 4e \end{cases}$$

$$T'' \cdot \frac{3 \cdot \cot x^{2}}{2^{2}} = \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$T'' \cdot \frac{3 \cdot \cot x^{2}}{2^{2}} = \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$= \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$= \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$= \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$= \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$= \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$= \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} - 4e$$

$$= \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{2}} + \frac{3 \cdot 3 \cdot \cot x^{2}}{3^{2} - x^{$$

William Shew that 多一岁,115 sol water 1-1 5 mil might on the white in They \$101 = 12 18 18 18 18 18 18 18 18 18 NB. Thus we are the to head and or waters when i a prom the school this im and constituting the sight sto presenting from toons may be too doffeett to find The generaling produces in each. = 至codx + (co + log x) ion * = 11在 - 11年 - 15 = 25) 電 大平小 To when & =0. 6. (0+1) - (a+10) + (a++1) - xe = 1 (\$ \$ (a) - \$ (a)) Ex (a) If x + x = y and ax = a when that 四中四一章、四年四十五章(四年四十二章、四十四十二章、四十二章、四十二章 的外心二等(中国);(6)中的二等中(中方中日);为)为(四年至7年至7年 かり中かい三等中(ターナリンナミリーを)脚り、日本でイントミリンナラダーノを) (10) 中の = まりかは(生きりナモ);(11)か(1)=キカリケーカ(リーニックランタ (4) 中131= 年(明年)47+8年92109+5) (1) 1 - 4 = 4 por = 4 por 12. 27 = 5 \$ (a) + 4 (a) = 6 + 0 + (a) 3. 多二分的十五十四十五十四十五十四十二 5. 4 1 C \$ 01 + 8 \$ (0) = 16 \$ (0) \$ (0). 以下十分或以来更加 二年(1月11日) 7. 45 = 10 () () + 20 # 48 + 2 m () 91 - 4 " 1 To 1 + 30 + 101 + 7 4 (4) · 主义生命 士 (2 · 6).

1 2+(+n-m-1 (x+l-n-m-1 | 2-(+n+m-1 | 2-(-n+m-1 | 2 + (-n+m-1 | 2 + (-n+m Prince - 22 36 + Printe - 4 = The Sec TX Sunda = = = = { cot 1 x cod 0 x + sin 0 x }

501, (1- 4/4) = 9, 15 1) -1 05 4,677 There was no have by The to the state of the positive integer you a Extra part of and part Show that y (x) is dissible by x = (x+1) " = x(x+4) TX+10, necording a do odd or ever and point out the wincep Ford good wheth cases & being a portracintege 8. \$ (0) = - B, E cas ILS - 1 BR-1 2 Fin 72 + 1 13 BR-1 Cos ILS -1 - 11 - 11 Bn-3 24 Sin mi - &c = - 125,- - Ma-0 2 52- 1 - 10 10 0 x 38 5-1 - 355. Sol. Apply III 3. 9. \$16) = 1=11+2) + 27- (2+2) + 1 = (2+2) + ac. 10. 中の一部子を用り十名(日)十名(日)十名(日) = (2011) Bart Frant = (1-211) S-1 Sol 4/4/9 VIII 4. · Cor, 中(一日) + 中(二日) + 中(一日) + 中(一日) = (n-n-1) 5-1 = (n-n n) Bars sen Tig. 11. It is a regative integer, then (1) delen Treat 11x 9 (2-1) + FD \$ (2) = 1+++0 (50 + Deferentiale both sides retires 10. 31 slower g metts of is very useful in funding to den Treat TX Le cot 12 y The state of the state of the second as these End The state of the state of the said to me the former

| a+2+1+6+6-1 | a+3+1-6-6-1 | a+3-1-6+6-1 | a-3-1+6+6-9 | x = P-8. if any one of apr 5,6 to bean intigue 「まくのようかもかったのか」(のようしょうしょうしょうしょう)ナーマート いくしょりしゃいいかよりしきり(をより) 84,0x6 E

term the question of the coeff the Try (1) directe com かんりょうナナラ ツ of the lay the singles of The がくりでナラヤゴナラリ #6(y+++y4+ 42) カイットラッチストンキスツ (# 5 y 5 + 3 y 6 + 3 y 4 + 26 5 4 + 17 T1 199+397+ 毎リデナ 管サーナ、詩、7) Ex. (a) For all values of is show that 1. 英田一至李俊子 + 第(是) } = (1-271) 5-2 2. \$ (- E) = (1- ta) 8-a 3. \$a(+ +) + \$a(- +) = (3 - +a) 8. 4. 4. (+)+ 4. (+)=(+ 1-1)5-然中十分十十十十十十二十分一人 (4) Agra is a position will intiger show to 1、からか)=(の一点)等 2. 9. 6 \$) = () + for 1 = 5tor 1) 8-1 3、ときかり=(ナガナカナカンデ 5. patt) + shut = (2 + times - 270+1) 5-1 6、中山市 (市)=(まままのでかりを (c) Show that I want to proceed to proceed the in and have the the training !

$$\frac{d(l_{1})}{dl_{1}} + \frac{d(l_{2})}{2} + \frac{d(l_{2})}{3}$$

$$= \int_{0}^{\infty} dn dn + c \cdot d(0) +$$

(d), 1, 1/2 + 30 + 30 + 70 4 60 = 253. 2, 4 + 13 + 50 + 100 + 60 = 2713 + 11 53. 70 pt + 50 + 70 1 /2 + 80 = 77 3 1 76 83 12. 20 { \$ a (+) - \$ a (+) } = (2.+1) { \$ a (+) = \$ a (+) }. Sol. \$ (-3) - 2 (4+1) + 4.(3) = (2+1-1) 5-2 by 18. 10. & pot 3) - 1 (fot 5) + fot 3) = (2 1/4) 5 0) · 20 { \$ \$ \$ \$ \$ \$ \$ } = (27+1) { \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$. 13. If ca be the constant of light (logg) + logg) + as the Sati = 4 + 0 - 70; + 70 = 20; + 80. Sol. It has been proved in VII 6 or 1. That Salls to is finished when in a d. The remaining part is obtained by applying The above result may be written as to llow , THE T THE TO THE TONE ! XC = + + 1577215 66 49 + . 0728 158 455 m - (004 P5 m2 + (100 34 m3) + - 1) &. where of may be taken as excepability to 1+ \$50. N.B. The above result is true in all refuse you. Ex. 1. 18/1 + 201 + 5 0/3 + &c = 10.5.8448.849 2. The treet 3 v3 + 80 = 2.6/23/5. 8. 1 -VI + 250 + . +VI + XC= 1. 341490 4 Bit = 2409932 5 Bt = - 1.032627 6. Bf = = 949 0745 213-4 = -1.3841547

$$\int_{0}^{\infty} e^{-2t} (1+\frac{2}{h})^{n-2} dx$$
= $1 + (1-\frac{1}{h}) + (1-\frac{1}{h})(1-\frac{h+1}{h}) + (1-\frac{1}{h})(1-\frac{h+1}{h})(1-\frac{h+1}{h})$
+ $\frac{h+1}{h}$
= $\frac{e^{n} [n-\frac{1}{h}]}{2n^{n-2}} + A_0 - \frac{A_1}{n} + \frac{A_2}{n} - 4c$

$$A_0 = \frac{2}{3} - k. \quad A_1 = \frac{4}{135} - \frac{k^{n}(1-k)}{3}$$

$$A_2 = \frac{g}{2835} + \frac{2k(1-k)}{135} - \frac{k(1-k^{2})(2-3k^{2})}{45}. \quad &c$$

$$1 + \frac{d(k. a+\delta)}{\phi(k. \beta+7)} + \frac{d(k. a+\delta)}{\phi(k. \beta+7)} \frac{d(k. a+2\delta)}{\phi(k. \beta+7)} + &c$$

$$= \sqrt{\frac{\pi}{2}} \frac{d(0)}{2(\gamma-\delta)k} + \frac{1}{3} \cdot \frac{\gamma+\delta}{\gamma-\delta} \left\{ 1 - \frac{d(0)}{g(0)} \cdot \frac{d'(0)}{g(0)} + \frac{a-\beta}{\gamma-\delta} \cdot \frac{d(0)}{g(0)} + \frac{a-\beta}{\gamma-\delta} \cdot \frac{d(0)}$$

7. 1. 2 - 1.847228 8. Show that S1+n+S1n= 1+.0083900 + 100 / 25 + 00 Then arrange the terms in ascending powers I fa and substitute Bacos The for Sun Singlarly 15. \$\\\ \phi_0 (x=1) + \phi_0(x) - 3 \S_{-0} = Sin \frac{\pi_0}{2} \\ \begin{pmatrix} \Cos 1 \pi \chi \chi \chi \pi_0 \pi_1 \\ \Lambda \pi_0 \pi_1 \pi_1 \pi_1 \\ \Lambda \pi_0 \pi_1 \pi_1 \pi_1 \\ \Lambda \pi_0 \pi_1 \pi_1 \pi_1 \\ \Lambda \pi_1 \pi_1 \pi_1 \pi_1 \pi_1 \\ \Lambda \pi_1 \pi_ A.B. The above two theorems author for all values of a when it is fear tromat when it is fear tromat they are true only when a lies between oand! 16. (277 9) { faity -1) - faity) when & has be tween 02/ = - Sin To 15/2 - \$ - Aty -1) Sin 47/4 + Sn- \$- (-1) Sin 47/4 + \Sa - \phi_{\int_{\beta}} \left\{ S_{1} - \phi_{\int_{\beta}} \left\{ S_{1} - \phi_{\int_{\beta}} \left\{ S_{1} - \phi_{\int_{\beta}} \left\{ S_{2} - \phi_{\int_{\alpha}} \left\{ S_{2} - \phi_{\alpha} \left\{ S_{2} - \phi_{\ 17. 4 10-1 \ \phi_1 (\frac{p}{q}-1) + \phi_{a-1} (\frac{p}{q}) - 25_{1-2} (1-\frac{1}{q}n) \ \ for the Same home is = - cos Ta | |5 = + a (4-1) cos 27/6 + (5 - p-a (+ 1) cos 47/9 + (sn - p-n(+)) cos 57# +... + (sn-p-1/4)) cos(18 1) np In the above two theorems page in integers. In 16 8.17 the same theorems 14 &15 are wester in EX. 1 / \$ + 1 - \$ = 3. Ent Cas 77. Gol, water to kin TX 14.

$$\begin{aligned}
&1 + \frac{(en)^{2} + \frac{(en)^{3}}{3^{3}} + bc} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{5760})\frac{1}{n^{3}}} \\
&= \sqrt{2\pi n} e^{n - \frac{1}{4n} - \frac{1}{48nc} - (\frac{1}{3}c + \frac{1}{3}c + \frac{1}{3}$$

2. 12 3 + 12 + 4c = 1 East Con 2. 1 8. FI- 1 7 = (E) E 4 3 77 } 2 - VIAVS + VS +VS - (ZE 1 V7 + 846 } = for = 300 + 300 + 307 + &c. 5. 1 1/2 + 1 - Anto 1 1/2 + V3 1V6 - Act 608 f & lies between 011 policing any integer is 9 andil 是(2011) = Sin # { \$ (= 1) - \$ 1 } Sin 2 # 1 1 1 for (= 1) - fort 3) Sin 47 + ac & totamo. (119) a \ pa-1(=-1) + pa-(=) - 2S1-a-(1- \frac{1}{2}) } Cos = [+ - (+) - d- - (-+) | cos = = + [+ - (+ -1) - 9 - (+) cos 4 = 9 Honce were that the to be leave] $\frac{(6\pi)^n}{1(n!\sqrt{3})} \left\{ \phi_{n-1}(-\frac{1}{2}) - \phi_{n-1}(-\frac{1}{2}) \right\} = \left\{ \phi_{-n}(-\frac{1}{2}), \phi_{-n}(-\frac{1}{2}) \right\} s = \frac{\pi}{2}$ 1 2 4 (-s) = See #7 Cos(((x+ TE)) + See ((x)+ TE) + See ((x)+ TE) + See 901. Combine the swell of IX 12, 1415. 发表一篇 * mx = tax * cape - 40 = + (Sin 17 + 1 12 + 12 + 12 + 141)

$$(p-q-1) \begin{cases} (p-q-1) \\ (p-q$$

CHAPTERX 1. Bacos To + n where a is o is a finite quantity which is al in one failing distanted by the Symbol Co the value of the che can be for d from # 2. It is the Constant of S 30 45 walusis Sol. Fince L. His in IX 1 is finale where = -1 on cos The + 20 when to whomis of the to ente when o But 22 1 - log + a ferrite grantity when a - o By cos, The + is finite when a o. 2.1+生十分十八八年二至至上期十二 = = Co + 60 x + 1x - Bi + Bi - Bi + Bi - Bi + Six 3. 2 = 1- + + = - + + + + + xe = 10+x) + 2(2+x) + (3+x) + oc 4. = = = xsi = xis + x3s, - xis+ xis - xc 5. = - = - Theot TX. Sol wite Tx for x in . The se we have = 11- += +=- += += += +== - {1- * + = - +x+ = +x+ w} ₹ € -x = € x / 6y x 3. んれるまってまれてまままままで、まちょう

The maximum wales of
$$\frac{a^{2}}{12} = \frac{e^{\int \frac{x}{a} da}}{\sqrt{2\pi}}$$

$$= \frac{a^{-\frac{1}{2}}}{12 - \frac{1}{2}} e^{\frac{1}{22a(36a^{2} + 10 \cdot 1)}}$$

2. = - + = - = - nlog n 3. (a) \$(-\frac{1}{2}) = -26_{\text{E}}, (6) \$\frac{1}{2}(-\frac{1}{2}) = -\frac{3}{2}(-\frac{1}{2}) = -\frac{3}{2}(-\frac{1}) = -\frac{3}{2}(-\frac{1}{2}) = -\frac{3}{2}(-\frac{1}{2}) = -\f 4. \$\delta + \delta (\frac{1}{2}) + \delta (\frac{1}{2}) = - n log 4n. 7. Let + Let + Lesu + . - + Let = + 1 + 12+1 4(2) 7 \$ (tr) = \$ (t) = log 1 + x \ \frac{1}{1+n}, dn ... 10. $\phi(+) = -\frac{1}{2} \int_{0}^{1} \frac{d-n}{n(n^{2}+1)} dn$. 11. $\phi(+) + \phi(+) = -\frac{1}{2} \{1 + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \}$ $\frac{11}{12} + \frac{1}{12} + \frac{1}{(2\pi)^2 - 12} + \frac{1}{(2\pi)^2 - 12} \int_0^1 \frac{n^{2-1}(1-n)^{\frac{1}{2}}}{1-n^2} dn$ 13. 1+ (Ex) ex + (Ex)3 4x + (V) 6x 12 (1) / 1 is even for toods = 1 for the the fort and (e) 1/1 < n+1 in fair every forthe to log (x+) + (i) log (x+) + # \$ 2 1 Log (x = 2x cos 1/2 +1) - = = ton And tand x-cos All

$$\int_{0}^{\infty} \frac{x^{2m}}{(1+x^{2})^{m+1}} \frac{\cos px}{x^{2}} dx = \frac{\pi}{2}(1)^{m} \frac{e^{-\frac{p}{2}}}{2^{m} n}$$

$$\times \left\{ \frac{e^{m} + A_{1} p^{m-1} + A_{2} p^{m-2} + A_{3} p^{m-3} + A_{4} p^{m-1} + A_{4} p^{m-2} + A_{5} p^{m-3} + A_{5} p^{m$$

is of whered & and the man of the account of the account = \$ 8 cm n lm date 2 - cos 12 1 . 2,4,6 (0-1) in Spale even Salt de = - 4 & Cos almologia i vantail W. You he old & 2001 The = 110 (long (set)) - In Econ tell (x = 2x Cost +1) the sun to the total x-coopy in the H, 3, 5, 60 is = the Biffur full + he fitter frant so Expl. $\frac{\pi}{2} = \frac{\pi^2}{3} + \frac{\pi^3}{3} - \alpha c = \log(1+\epsilon)$ 2. + - 3 + x - 6x = tantx 3, = 26 + 27 - bec = filog (+x) + to land x vs 4. 7 - 35 + 29 - Sec = 4v2 60 1 + xv2 + x+ + (v2 lam 124) 3: 3- 36 + 11 -8c = to log (1+1) + tos log 1+ x Vs-1+x+ + /1 VIO-IVS-tan x x VIO-IVS + 10+ 11/5 fan-1 x 10+2V5 4+ x(15-1) 6. = - + 1 = 13 - 77 - NC= + land x + + tand x 3 + 10 6 14 1/4 12

$$II(\alpha) = (1+\alpha)(1+\alpha x)(1+\alpha x) \approx c$$

$$II(\alpha) II(1) - II(\alpha) II(1) = \frac{a-b}{1-x} + \frac{a-bx}{1-x^3} + \frac{a-bx}{1-x^3} + \frac{a-bx}{1-x^2} + \frac{a-bx}{1-x^2$$

7. x - 17 - 24 1 WC = ナルダーは 「して ナータのがみのことが ナンド ナンヤスートント + 405 log 1+ 4 VIO 12 1 + x+ 1 1-44 4 - to 1 sec = # 1 1 562 一切大阪一大地二年後上大佐は11年日 7. 1- 4 + 7 = 30 1 de = 7 + 1/3 log 9 + 1/3 + 75 (2 VIO WE + - TETUS) 7. 一年十月大百年以三届江北(八十一) 8 1 - 12 + 2 - 11 + bo = 70 + 10-wi log 4 + 10-18 + 10+28 log 4 + 50+28-9、11年的和海大车的一个大大战工工工 10. 10-12 (10-12) Dec 2 75 + 5 67 154 . 11. 2-14 12-12 1 (1-4) - But = 1/42-11- 12/6/20

$$\frac{\pi}{1} = \frac{\pi}{1} (n+2) \cdot \frac{x}{x+n+1} \cdot \frac{y}{y+n+1} \cdot \frac{x}{x+n+1} \cdot \frac{x}{x+n+1} + \frac{\pi}{1} + \frac$$

C. 1. 1+ 52 + 12 3 1 60 6 + OC = 2692 2. 1+ 32, + 63 + 45 + 1 00 = 69,3 7. 1+ 2 + + 2 0 + he = 2 (m2 - --)(s-) x 5. 1+ 50 6 + 10 p + 10 18 1 86 = 26,3 1 5676 6. 1+ 80 8 + 100 16 + 245 14 + Occ - 682 + 10 Fre X 7. 1+ 103.10 + 202.10 + 303.50 + 80 = = 67.2 + 6 675 7 1+ 163-18 + 103 11 + 101 is + 100 = \$1002 + 102 (1+10) + VIII 62 2+ VI+VE + VIVE 12 13 15 15 15 16 10. 1+ 20 to + 20 40 + 500 60 th 84 7 8 625 + 16 4- VID+1VE 15. 8/ = + = G + loga, the...

(2+2) = 1- = 1 to + 2 (n+1 to) (lov) - (lov) = Cot. It is minimum when & = \$ 13 way nearly. IN 18 200 000 1000 1000 54 = 8,0,0 a=1 X = 2 + 30 + 30 2 2 = 3 = 1 = 1 = 1 = 12 = 12 = 12

$$\begin{cases} 1+a.\frac{1-b}{1-x}.\frac{1-c}{1-d}+a^{2}.\frac{(1-b)(1-6x)}{(1-x)(1-dx)}+b^{2}x \\ \frac{(1-a)(1-ax)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)}{(1-d)(1-dx)}+b^{2}x \\ 1+\frac{a-b}{1-x}.\frac{1-c}{1-d}+\frac{(a-b)(a-bx)}{(1-x)(1-x)} & \frac{(1-a)(1-ax)}{(1-d)(1-dx)}+b^{2}x \\ \frac{(1-a)(1-ax)(1-ax)}{(1-bx)} & \frac{(1-a)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)}{(1-a)(1-ax)} & \frac{(1-a)(1-ax)}{($$

16. 6 1 (元) -2 (元) + 10 m - sec The time is the met property (843) 3 (12) = 17. log 12 = (x+4) lbg x x + 2 log(27) + Bz Bz Bz + Se sol Equale the coeff to far in 1x 1. The coefft of non Barrices Aland - that of non But Santa attat ff in - 11 (27) c Sant Santa) Hat 1/24- - = (1-16,27 +40) (1, 16, 20) (1 10+ that of no - 2 + 2 log (27) 1 be = 2 log (27) The for for = loge . . - log to the - A + x loge. fat x 0. Then we see that for the form But the constant in for 12 = + log 1 - c. 10 = = 100/27 = .9100 345 38 20 4673 By When that when x = 2 - 2 x V = 7 3 18.600 = - ムマナギストリング he log 12+2 = 19227843351x + 197467032 .0256856344 23 4.00495 350 84 29 20011332510254000296343726 300 10 10 16865 27 + -000021 3 877 28 - 2000 10 6 1409 25 + 20004 840 47 3+x Fx 1. Log E5 = 1554 19/0 855 les t 5 = 12/14/36 0/0 世出土世史的表现了。

$$\frac{1}{2\pi} + \frac{1}{1+(\pi)^{2}} +$$

$$= 1 - \alpha \cdot \frac{(1-b)(1-c)(1-d)}{(1-ab)(1-ac)(1-ad)} \cdot \frac{1-ax}{1-x} + a^{-1} \cdot \frac{(1-b)(x-b)(1-c)(x-c)}{(1-ab)(1-ac)(1-ac)}$$

$$\times \frac{(1-d)(x-d)}{(1-ax)(1-a)} \cdot \frac{(1-ax^3)(1-a)}{(1-x^2)} - a^3 \cdot \frac{(1-b)(x-b)(x^2-b)}{(1-ab)(1-abx)(1-abx)}$$

$$\frac{(1-d)(x-d)}{(1-ad)(1-adx)}, \frac{(1-ax^3)(1-a)}{(1-x^3)} = a^3 \frac{(1-b)(x-b)(x^2-b)}{(1-ab)(1-abx)(1-abx)}$$

$$\frac{(1-ad)(1-adx)}{(1-adx)}, \frac{(1-x^3)}{(1-x^3)} = a^3 \frac{(1-b)(x-b)(x^2-b)}{(1-ab)(1-abx)(1-abx)(1-abx)}$$

$$\frac{(1-ad)(1-adx)}{(1-adx)(1-acx)(1-adx)(1-adx)(1-adx)} = a^3 \frac{(1-b)(x-b)(x^2-b)}{(1-ab)(1-abx)(1-abx)(1-adx)}$$

$$\frac{(1-ad)(x-d)}{(1-adx)(1-adx)(1-adx)(1-adx)(1-adx)} = a^3 \frac{(1-b)(x-b)(x^2-b)}{(1-ab)(1-abx)(1-abx)(1-abx)}$$

+ &c

19. 14 18 1 TO BEETTE. on. 巨生 V有十二 生業一學品之(日本三 26, 12 12 12 12 12 尚、七年上京长春上东 文章 LE 11 1 1 1 1 1 27. 1000年 中の一個人でありからです(のから)ナラナーない」、ない(いとする) 9=--072872720- 680 Sol, Write not for in 1x 1, then deviced both sides by and finit thatoeff of the four with sense Ex allow to so I described part - for the for 21 par - 19/ - militar + 1/2 - 1/2/14 一日の何の(まとの)二年間のし

$$\frac{1}{\sqrt{1-y}} + \frac{1}{\sqrt{1-y}} = \frac{1}{\sqrt{y}}$$

$$= \frac{1}{\sqrt{y}} + \frac{1}{\sqrt{y}} + \frac{1}{\sqrt{y}}$$

$$= \frac{$$

Cor. \$(2)+\$(-2)+\$(-2)+ +\$(-2) Extilized + 3 (62) + 3 6 (5) 10 adent 2 1 mg - G 3. 中午3)+中午到三季1987年3日至3.十一年二十二 5 \$ (4) + \$ (5) = 7 (2) + 6 Co (92. 24. 7 { log 1x 1 + (Fo + log 27) (2x - 1) when x lies between 0 11) N. B. #- Tr = SCHINX + & Sin 47 x + & Sin 47 x + & Francis + 665 25. 1 (x-1) - \$(-1) = (Co + log 211) Treating in you the Same limits + 21 { Seneth & logs + Seneth & 27 ac} W. B. Sinenz + Sindnx + Sinbux + Sic - Ecat Wir. Ex 1 Find the audience (4 +4), \$ (3) & \$ (3). 2. 14 - lage 1 by stop 1 as = 7 m Thy L& 200. 26. (og 1) + (og 1) + (og 1) + ... + (og 1) = \psi(x) 4(1) = 2 lege ly VOT = (2+4)(legs) +2+ + 3 10 +9 - 75 +.L] #4 . 125 - 106 F+ = + 5+2 Sel bount to any the 1/2" so 1/2 !

*
$$1 + \frac{B \times}{(1-x)(1-dx)} + \frac{B \times}{(1-x)(1-x^{2})(1-dx^{2})} \times \frac{(1-x)(1-dx^{2})(1-dx^{2})}{(1-x)(1-dx^{2})(1-dx^{2})} \times \frac{(1-x)(1-dx^{2})(1-dx^{2})}{(1-x)(1-x^{2})} \times \frac{(1-x)(1-x^{2})}{(1-x)(1-x^{2})} \times \frac{(1-x)(1-x^{2})}{(1-x)(1-x^{2})(1-x^{2})} \times \frac{F(a)}{(1-x)(1-x^{2})(1-x^{2})} \times \frac{F(a)}{1-dx^{2}} \times$$

$$\frac{1}{1+\frac{a_{1}}{1+\frac{a_{2}}{1+\cdots a_{m+1}}}} = \frac{1}{D}$$

$$\frac{1}{1+\frac{a_{1}}{1+\frac{a_{2}}{1+\cdots a_{m+1}}}} + \frac{1}{a_{m+1}}$$

$$D = \phi(a_{1}) + \phi(a_{1}) + \phi(a_{2}) + \phi(a_{3})$$

D = \$(0) + \$(0) + \$2(0) + &C.

27: 40 11 4(1)+4(1)+4(1)+····+4(1) = lan lan +6-1/20+9 The Elling + + 2 (2n) = = = (2/1) * (2/1) * (2/1) (x=00) (1/2) + (4/2) * (2/2) + (4/2) * (4/ 3. 41-4) + 4(-4) + Ch + 45, 4 (92) は、中かナヤイシー(C+139」を 1916年2 +1を1219 のおりナイントサイン)= ママナタ、地口を1917 + はればれる。 28. \$12-11 + \$6 2) = C1 + 724 + \$(C+ 60/27) (C+ 60/27) 1 H 1 1 Cos 4 TE Cos 4 TE + 20 1 29. If Cabe the constant in (log1)" + (log 1)" + in (log x)" and if \$ (40) = (40 + (40) + ... + (ly x)" + Cm; then 1. The logarethmochust of for (x) = n log x for (x) - m(n-1)(har) to + m(n-1)(n-1)(har) 4- (1) - 6.6 and the non logarithmic part our be found from 18%. 11, \$ (7) ((1) 1 - 2 4, (2) ((1) 1 - 1 21 (ma) of (2) ((1) 2) - See = × 10 - 1 200 Box 1 Sin 12 - 2 . 1 200 Box 1 Cos 5 BANG X Cos 77 H

$$\begin{aligned}
&1 + \frac{x^{2}}{(1-x)^{2}} + \frac{x^{6}}{(1-x)^{2}(1-x^{2})^{2}} + \frac{x^{7}}{(1-x)^{2}(1-x^{2})^{2}} \\
&= \frac{1-x+x^{3}-x^{6}+x^{7}-x}{(1-x^{2})(1-x^{2})(1-x^{2})} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{3}y)(1+x^{3}y)}{(1+x^{3}y)(1+x^{2}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{3}y)(1+x^{3}y)}{(1+x^{3}y)(1+x^{2}y)} & \\
&= \frac{(1+x^{2})(1+x^{3}y)(1+x^{3}y)}{(1+x^{3}y)(1+x^{2}y)} & \\
&= \frac{(1+x^{2})(1-x^{3}y)(1+x^{3}y)}{(1-x^{3}y)(1-x^{3}y)} & \\
&= \frac{(1-x^{2})(1-x^{3})(1-x^{3}y)}{(1-x^{3}y)(1-x^{3}y)} & \\
&= \frac{(1-x^{2})(1-x^{3}y)(1-x^{3}y)}{(1-x^{2}y)(1-x^{3}y)(1-x^{3}y)} & \\
&= \frac{(1-x)^{2}}{(1-x^{2}y)(1-x^{3}y)(1-x^{3}y)} & \\
&= \frac{(1+x^{2})(1+x^{3}y)(1+x^{3}y)}{(1-x^{2}y)(1-x^{3}y)(1-x^{3}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{3}y)(1+x^{3}y)}{(1-x^{2}y)(1-x^{3}y)(1-x^{3}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{3}y)(1+x^{3}y)}{(1-x^{2}y)(1-x^{3}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{3}y)(1+x^{3}y)}{(1-x^{2}y)(1-x^{2}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{3}y)(1+x^{3}y)}{(1-x^{2}y)(1-x^{2}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{3}y)(1+x^{2}y)}{(1-x^{2}y)(1-x^{2}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{2}y)(1+x^{2}y)}{(1-x^{2}y)(1-x^{2}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{2}y)(1-x^{2}y)}{(1-x^{2}y)(1-x^{2}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{2}y)(1-x^{2}y)}{(1-x^{2}y)(1-x^{2}y)} & \\
&= \frac{(1+x^{2})(\frac{1}{2}+x^{2}y)}{(1-x^{2}y)(1-x^{2}y)} & \\
&= \frac$$

$$\int_{\alpha_{1}}^{\beta_{1}} \phi_{1}(\beta, x) F(nx) dx = \Psi_{1}(\beta, n)$$

$$\int_{\alpha_{2}}^{\beta_{2}} \phi_{2}(\beta, x) F(nx) dx = \Psi_{2}(\beta, n)$$

$$\int_{\alpha_{2}}^{\beta_{3}} \phi_{1}(\beta, x) \Psi_{2}(\beta, nx) dx = \int_{\alpha_{2}}^{\beta_{2}} \phi_{2}(\beta, x) \Psi_{1}(\beta, x)$$

$$\int_{\alpha_{3}}^{\alpha_{3}} \frac{e^{mx} \cos(\beta x)}{(1 + e^{x})^{n}} dx$$

$$= \frac{e^{mx} \cos(\beta x)}{(1 + e^{x})^{n}} \cdot \frac{e^{mx} \cos(\beta x)}{(1 - e^{-x})^{n}} \cdot \frac{e^{mx}$$

11. fold sax catt - alati x cate + alatolato x3 cats - be -A. A x Satt + altto (+ + + 1) x Sate - &c. = ex (man) - malog in f carried to carried to the con. \$ (th) + \$ (th) + \$ (th) + \$ (th) = notogon Sn - (n' n) c'n. 32. Let (by 1) + 4 (by 2) + 4 (by 2) + ac to stein = face) a let Ca who els constant their 1. \$ 100 - hilly of the in who x = 00] () 11. m 4.00 - { 4. (2) + 4. (2) + 4. (2) + - + 4. (2 - 1)} = m (log n) at cosTIA + An log ~ 5 to for the a (and mollown) { for (1) - co of + ose the last turn being +112-12 (log m)2 (apin) - 69 33. (1/21) + (1/22) + (1/2) + (1/2) + 66 That + Ca - at Cats + at Cat = To Cats + XC Sol. Differentiate a times dothe melinion 1. ((a)) + ((a)) + ((a)) + ox = 96.001 meanly. 2. by 4 to + 6 + 80 = . 9382 meanly. 3. (21) + 1 + (191) + xe = 24 nearly 1. 1. (but) + (but) + (but) + 100 - 7680 records

If
$$\int_{0}^{\infty} \phi_{1}(x) F(nx) dx = \psi_{1}(n)$$

8 $\int_{0}^{\infty} \phi_{1}(x) F(nx) dx = \psi_{2}(n)$

then $\int_{0}^{\infty} \phi_{1}(x) \psi_{1}(ux) dx = \int_{0}^{\infty} \phi_{1}(nx) \psi_{1}(ux)$

If $\int_{0}^{B_{1}} \phi_{1}(x) F(nx) dx = \psi_{1}(n)$

8 $\int_{0}^{B_{2}} \phi_{2}(x) F(nx) dx = \psi_{1}(n)$
 $\int_{0}^{B_{2}} \phi_{2}(x) \psi_{1}(nx) dx = \int_{0}^{B_{2}} \phi_{2}(x) \psi_{1}(nx) dx$
 $\int_{0}^{B_{2}} \phi_{2}(n) \psi_{2}(nx) dx = \int_{0}^{B_{2}} \phi_{2}(nx) \psi_{2}(nx) dx$

5. (m) /4 + (4) /41 + (4) /1/4 + 1/4 3/2 nearly. 1 4 (1) = (2) (2+x) + (2) - (4)(2+x) + 8x 11 (c) (to + (re + + to) log x + (log x + 60 + 1/2 1 log VET) + (V2+1)(V1 + + to) (log x + 60 + 1/2 1 log VET) - 4VE + + + 12/5 - 1-4/5 (1+3+3) 2x3/2 + 126,810+3+3+4+4) 3201/2 = (to + to + to + ... + to) (de 20) = 200 = (4 46) (to 6 + 6 - 60) (tobs -1) (36 77 to 70) (gal N. If Was = to to the the | \$ 16-11 + \$ (4) - 20 | + (4) # + (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (7) | - 4 (= 2 | # SALLTIX + # BOOK 471 + 40 } ... V. | \place -11 - \place = 1 + (C - \frac{\pi}{2} + \langle (\pi - \pi - \p In both cases cac an the constants of fall & fin Es 1 Find it was \$ 9 + t), 2 = 31 - 207 + 5) 1) She that the constant in y at = - 45 (Ca + F + 1717); Set. West His for in 18 he will conside the come of your set of the second the consideration of the contract o

pur 1400+ + + 4(1) φω (60) + + + φ(1) + 500 φ (8+xi) φ(1,-xi) da The imaginary part in \$(n) F(a+6i) - \$(en) F(a+86i) + \$(en) F(a+36i) - bx $= \int_{0}^{\infty} \frac{F(a+bx)-F(a-bx)}{e^{\pi x}-e^{-\pi x}} db (x-b) dx.$ $\int_{1}^{\infty} \frac{e^{\alpha x} - e^{-\alpha x}}{e^{\pi x} - e^{-\pi x}} \frac{dx}{1 + x^{2}}$ = Sina - Sin2a + Sin3a - &c a lying between 0 % TT. Cosec 0 + 4 { Sin 0 + Sin 3 0 + Sin 50 } Cose - Cosse + Cosse - Sinhy + Sinh sy - Se = きた、デースをいる

CHAPTEL I-72, I J = (1-4)2 + (3-4)2 + (3-4)2 + (4+4)2 + bu, then the mond $\frac{\partial \omega(t+a)x}{\partial -a)^n} = \frac{\partial \omega(t+a)x}{\partial +a)x} + \frac{\partial \omega(x+a)x}{\partial -a)^n} = \frac{\partial \omega(x+a)x}{\partial -a)^n} = 0$ Sa- The Sa- 2 + The Sa 4 . De as far as the leine Containing Sin (1-2) 2 - Sin (1+2) 7 - 4 Sin (3-2) 12 - Sin (3+2) x + but
(1-2) 12 - (1+2) 12 - (3-2) 12 - (3ii of a is ever = # Son - # how to the term worker 5/ Sn = time + water to the to the total + see the 1. How som (3-0) + cos (3+0) / 100 2-16-17 + 30-56+018 + 10-56 + = 1 to the term contain 4 finald - Chillian + Sin (19) + Sin (19) x + Sin (19 - He as for as the turn or 4年一个是是"新兴"。 1 - laining Spill if in it is a separate the series in community persons 1 Man = 22 - 11+ 1) con + (++-+) anix - /-文 = 1 4 4

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \left\{ \frac{1 \cos 2\theta}{\cos 2\theta} + \frac{3 \cos 4\theta}{\cos 2\theta} + \frac{3 \cos 6\theta}{\cos 2\theta} + \frac{3}{\sqrt{2}} \right\}$$

$$= \frac{1}{\sqrt{2}} - 8 \left(\frac{1 \cos 2\theta}{\cos 2\theta} + \frac{3 \cos 4\theta}{\cos 2\theta} + \frac{3 \cos 6\theta}{\cos 2\theta} + \frac{3}{\sqrt{2}} \right)$$

$$= \frac{1}{\sqrt{2}} - 2^{2} \left(\frac{1+3}{3} \right) + \frac{1}{3} \left\{ 1 - 24 \left(\frac{1}{642} \right) + \frac{2}{642} \right\}$$

$$= \frac{1}{\sqrt{2}} - 2^{2} \left(\frac{1+3}{3} \right) + \frac{1}{3} \left\{ 1 - 24 \left(\frac{1}{642} \right) + \frac{2}{642} \right\}$$

$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\sin 3\theta} + \frac{2^{2} \sin 4\theta}{\cos 2\theta} + \frac{2^{2} \sin 4\theta}{\cos 2\theta} + \frac{2^{2} \sin 4\theta}{\cos 2\theta}$$

$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\sin 3\theta} + \frac{\cos 3\theta}{\cos 3\theta} + \frac{\cos 5\theta}{\cos 3\theta} - \frac{\cos \theta}{\cos 3\theta}$$

$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\cos \theta} = \frac{1}{\sqrt{2}} \frac{\cos 3\theta}{\cos \theta} + \frac{\cos 3\theta}{\cos \theta} + \frac{\cos 5\theta}{\cos \theta}$$

$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\cos \theta} + \frac{\cos 3\theta}{\cos \theta} + \frac{\cos 5\theta}{\cos \theta} - \frac{\cos \theta}{\cos \theta}$$

$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\cos \theta} + \frac{\cos 3\theta}{\cos \theta} + \frac{\cos 5\theta}{\cos \theta} - \frac{\cos \theta}{\cos \theta}$$

$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\cos \theta} + \frac{\cos 3\theta}{\cos \theta} + \frac{\cos 5\theta}{\cos \theta} - \frac{\cos \theta}{\cos \theta}$$

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$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\cos \theta} + \frac{\cos \theta}{\cos \theta}$$

$$= \frac{1}{\sqrt{2}} \frac{\cos \theta}{\cos \theta}$$

This sold \$ (n-1) - 4(n) = 2 (Sen 2 - Sen 32 + sen 2 - 80) } + or (Cost - Costs - Costs - Oct) - Tomas Contract (Loris (De) 4.1. - Sintx - 1+4 sin3x + 1+4+4 sindx bec = # (Cox _ Costs + Costs - Sic) 11. Color 14 1 cos4x + 11+ + + 1 + + 1 - 662 - 60 = The (cosx - cossx + cossx - che) + Integrate Latte reder in the serior a valle settines. 5. 1. Schaf + E son (well + " 12) son (whole I show = (2000) For (a+0) 0. 11. cos a & + questa + a part cook into + ac Sol find energy entitled continue and and apply to the conscious theme-1. Sin x - Escapes + (1) son 52 ma = 1 12 さんのは、一世のからますからますなーのでも 11. Cox x = & Cox x 4 12 cox 12 - 40 21-4000 x + 112 cm 45- 111 - 7062 140 -W. Sin it - to Stand + the pint x de = Stant Contract Confr + (Confr) - ST = **企业的基础**

$$\frac{n}{n+1} + \frac{x}{n+1} + \frac{x}{n+2} + \dots + \frac{(n-1)(k-2)x^{n}}{(k-1)(k-2)x^{n}} + \frac{(n-1)(k-2)x^{n}}{(k-1)(n+n)(n+n)(n+n-1)} + \frac{(n-1)(n-1)(n+n-1)}{(n-1)(n+n)(n+n-1)(n+n-1)} + \frac{(n-1)(n-1)(n-1)(n+n-1)}{(n-1)(n-1)(n+n)(n+n-1)} + \frac{(n-1)(n-1)(n-1)(n+n-1)}{(n-1)(n-1)(n-1)(n+n)(n+n-1)} + \frac{(n-1)(n-1)(n-1)(n+n-1)}{(n-1)(n-1)(n-1)(n-1)} + \frac{x}{n+1} + \frac{x}{n+1}$$

VI. CONT + CONTENT OF COST - NC = CONTENTED X = 1 . THE VIV. 14 - + Sent + 15 Sent - on = Sen 1 (Ve sin +). VIII CON - 1 COSST + 1/3 COSTS - OCE = (og (Vens + 1/4 COS)) 1X, Suits - 2. Sones + 61 Suiss - N = Sin 7 Villes X. Cosex - Cosex + 11 cosex + co = cos \$ 12000 x (of of Versx + Vi cos 2) +1 + by 2. Similarly we can form similar identities for the I fact to fold the folder of the I fact the folder of the I fold the folder of the I folder of the seem is a between detailed 7. Let F60 = { Sinx - 1 sin32 + 45 since sect - Cootte (Sent - 12 Sent + 117 Sinh K LC) 4/60) = 1 con = \(\frac{1}{2} \cdot \frac{1}{2} 4 con The 1 Conex - 12. Conex + 102 - 200 - 100 add (Corx - 1 Corx + 13 Cords - 60) / the If it is odd (EN 1-19 = 智 5,401 - 13-2 (5,40) + 12 * *** + 2 m-4 { 5, \$161 + 51 9 10 + 36 90) } - 100 1 40 = 40 = And 40 = And 400 = The

$$(1-e^{-x}) + (1-e^{-x})^{2} + (1-e^{-x})^{2} + 4e^{-x}$$

$$= x - \frac{x}{2} + \beta_{2} \frac{x}{13} - \beta_{3} \frac{x}{12} + \beta_{6} \frac{x}{12} - 3e^{-x}$$

$$= x - \frac{x}{2} + \beta_{2} \frac{x}{13} - \beta_{3} \frac{x}{12} + \beta_{6} \frac{x}{12} - 3e^{-x}$$

$$= \frac{x}{3} + \frac$$

then For & A. G. the ArM& G. M. between age B then F(A,G) is the A.M between F(B,B) & F(B,B) If a, +a, = 6,+6, = e,+e,= b,c = p a, a3 = 6263 = 6263 = d2d3 xe = 9 a3 + a4 = b3 + b4 = c3 + c4 = 84 = 12 apag-= 6465-= C+ C5-= 0x = 1 25 by then E. 9+ 9+ 9+ ac = \(\alpha - \frac{\varphi a a_1}{1+p-\frac{\varphi}{1+n-\frac{\varphi}{1+t-\frac{\varphi}{1+v-\varphi}}} and A the A.M between & & B, then. F(A, A) is the A. Mbetween F(a, B) & F(B, a).

$$\int_{0}^{\infty} e^{-x} (1+\frac{x}{n})^{n} dx = 1 + \frac{n}{1+\frac{1}{1+\frac{1}{1+\frac{1}{2}}}{3+\frac{1}{2}(n-1)}} \frac{3(n-1)}{3+\frac{1}{2}(n-1)}$$

$$= 2 + \frac{n-1}{2+\frac{1}{2}(n-1)} \frac{2(n-1)}{6+\frac{1}{2}(n-1)} \frac{3(n-1)}{6+\frac{1}{2}(n-1)}$$

$$= \frac{e^{n} \ln n}{n^{2}} - \frac{2n}{2+\frac{2n}{2+\frac{1}{2}+\frac{1}{2}n}} \frac{4n}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{6+\frac{1}{2}(n-1)}$$

$$= \frac{e^{n} \ln n}{1+\frac{1}{2}(n-1)} - \frac{2n}{2+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)}$$

$$= \frac{x}{2+\frac{1}{2}} \sqrt{x}$$

$$= \frac{x}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)}$$

$$= \frac{x}{2+\frac{1}{2}} \sqrt{x}$$

$$= \frac{x}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)}$$

$$= \frac{x}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}(n-1)} \frac{3(n-1)}{1+\frac{1}{2}($$

$$1V = \frac{1}{2} + \frac{1}{2} +$$

If I(n) be the nearest inliger to In { Cosh TVn - Sinh TVn } then I(0) + x I(1) + x2 I(2) + x3 I(3) + x6 = 1-2x+2x4-2x9+2x16-36 of Joen x2 dx = \$600, 855 m + n. Then $\int_{0}^{\infty} \frac{e^{-m^{2}x^{2}}}{1+x^{2}} \cos 2m \, n \, x \, dx = \frac{1}{2} e^{-n^{2}} \phi(m+n) + \phi(m-n)$ $\int_0^\infty e^{-x} (1+\frac{x}{n})^n dx = \frac{e^n \ln x}{2n^n} +$ $\frac{\frac{2}{3} - \frac{1}{135n} + \frac{8}{27.105n^{2}} + \frac{16}{105.81n^{3}}}{(m-n-1)} \int_{0}^{\infty} \frac{(1+\frac{2}{n})^{m}}{(1+\frac{2}{m})^{m}} dx = \frac{m}{2} \cdot \frac{m^{m} | n|}{n^{n} | m|} \cdot \frac{|m-n|}{(m-n)^{m}} - n$ $+\frac{2}{3}(m+m)-\frac{4(m+n)(m-2n)(m-\frac{\pi}{2})}{135mn(m-n)}$ + $\frac{8(m^3+n^3)(m-2n)(m-\frac{n}{2})}{27.105m^2m^2(m-n)^2} + \frac{16(m^3+n^3)}{105.81m^2}$ 32.28/ - &C X (m-m) Xm-2n)
38.52.7.11214

是到于五千世纪的一个人的一个人的大学() 4. (4.2) + 1+ 1 (6-2) + 1+ 1+ 1 (4.2) + w = = = = = (6) (4) +(15+2) (0) 4 + (315+5+6)(2)(6) 05-1 15. Sn+1 Cos 71 x 120 = 3 Cot x dx + 2 m (Con 4 Cod is ; Cos 3 2 4 (4) -THE Y SING Y SINGE + WE) = 21/n-1) x x 2 (Cosx + cosx In(no)(n-1) + n-2 (sin + 5 - 2x + 6 - 14 + 40) 1 800 where Sh = for + gar + gar & gar & sac 845 Sale Sin x + Sin x + Sin 31x + Wall to Sin & - 1x 2 (Sonx + Sin 1x + so) dx - 1 2 5 2 5 2 x and apply fordx = 110 - 16 2, + 11/2, all 16. Say () 聖[=] () () () () () 4 x (cosx + coss + cosx + w) - nx x 1 (Sings + Sings + 2 - 5 - 6 - 60) I for cold dx - for the + (4-2) = 12 1/20 - 1/29 - 1/29

$$\frac{\operatorname{Sech} \frac{\pi}{2}}{1+n^{2}} + \frac{\operatorname{Sech} \frac{3\pi}{2}}{1+(3n)^{2}} + \frac{\operatorname{Sech} \frac{5\pi}{2}}{1+(5n)^{2}} + \operatorname{AC}$$

$$= \frac{1}{2} \cdot \frac{7\sqrt{x}}{1+\frac{(n\pi)^{2}}$$

$$= \frac{1}{2} \cdot \frac{2^{2} \sqrt{x(1-x)}}{1+x^{2} z^{2}(1-2x)} + \frac{2^{2}(2^{2}-1) \times (1-x) x^{2} z^{2}}{1+(3\pi x)^{2}(1-2x)} + \frac{2^{2}(4^{2}-1) \times (1-x) x^{2} z^{2}}{1+(5\pi x)^{2}(1-2x)+\frac{2}{3\pi}}$$

 $= \frac{1}{1 + m^{2}} + \frac{3 \cosh 2 \frac{3y}{2}}{1 + (3\pi)^{2}} + \frac{5 \cosh 5 \frac{3y}{2}}{1 + (5\pi)^{2}} + 4c$ $= \frac{1}{2} \cdot \frac{x^{2} \sqrt{x}}{1 + (nz)^{2} (1+z)} - \frac{z^{2} (z^{2}-1) \times n^{4} z^{4}}{1 + (3\pi z)^{2} (1+z)} - \frac{1}{1 + (3\pi z)^{2} (1+z)}$

Sol, if
$$y = -1 = \int (x^2)^{n} \cot (x^2) = \cot (x^2)$$
 $f(x) = \int (x^2)^{n} \cot (x^2) = \int (x^2)^{n} \cot (x^2)$
 $f(x) = \int (x^2)^{n} \cot (x^2) = \int (x^2)^{n} \cot (x^2)$
 $f(x) = \int (x^2)^{n} dx = \int (x^2)^{n} \cot (x^2) = \int (x^2)^{n} dy \cot (x^2)$
 $f(x) = \int (x^2)^{n} dx = \int (x^2)^{n} \cot (x^2) = \int (x^2)^{n} dx = \int (x^2)^{n} \cot (x^2)$
 $f(x) = \int (x^2)^{n} dx = \int (x^2)^{n} \cot (x^2) = \int (x^2)^{n} dx = \int (x^2)^{n} \cot (x^2)$
 $f(x) = \int (x^2)^{n} dx = \int (x^2)$

Sf
$$d\beta = \lambda \pi^{2}$$
 & $F(x) = \frac{\sqrt{5}+1}{2} + \frac{\sqrt{3}}{1+\frac{\alpha}{1+\frac{\alpha}{1+\frac{\alpha}{1+\alpha}}}}$
then $F(e^{-\alpha})$ $F(e^{-\alpha}) = \frac{5+\sqrt{5}}{2}$.
 $f(x^{2}, -x^{2}) - \sqrt{3}x^{2}$ $f(x^{2}, -x^{4})$
 $= f(x, -x^{2})$ $f(-\sqrt{5}x, -\sqrt{5}x^{4}) + \sqrt{x}f(x^{5}, -x^{10})$.
If $K = \frac{f(x^{2}, -x^{\frac{1}{2}})}{\sqrt{x}f(-x^{5}, -x^{10})}$ then
$$\int K + 2N + 5 - (K + 1) = \frac{\sqrt{\pi}}{1+\frac{\pi}{1+\frac{\alpha}{1+\alpha}}} \frac{1}{\sqrt{1+\frac{\alpha}{1+\alpha}}}$$

$$f(x) = \frac{\sqrt{\pi}}{2} + \frac{\sqrt{\pi}}{1+\frac{\pi}{1+\alpha}} \frac{1}{\sqrt{1+\frac{\alpha}{1+\alpha}}} \frac{1}{\sqrt{1+\frac{\alpha}{1+\alpha}}}$$

在一种意图中是一种图·如图·加克·加图· 三面作3一至于十八方式去之为中外。 (and + 1 to 12 + 1 to 10 + to 1) E. 人有等一种的一种写明的 =一元的673一年第十年(在日本八年十四) 2. VI 1 (VE 1) + WA 12 - WA 13 7 LEC - + =-夢をからし一帯ナンのなー分がするかり 3. 工作工作型。+ 任何一次(三十万年) 平身(有 多寸 3 · NC) 20. If & les between a & Ty Cosx - Sens + 2 Cost - Sens + Pas Cost a Sensey + + (Sounda + 1 2 1 1 + 22 32 1 2 1 2 1 1 de f = I log 2 cos 2. that 4 (1) 2 4 4 (2) = 2 4 2 7 2 4 15 1 The constitution of the second · 政治學系統計學 + 经产品的 二层场库大路(1000) A SENIE A THE WAY A PROPERTY OF THE PARTY OF

$$x + \frac{x^{2}+1}{2x} + \frac{x^{2}+9}{2x} + \frac{x^{2}+25}{2x+6x}$$

$$= n + \frac{x^{2}-1}{2n} + \frac{x^{2}-9}{2x} + \frac{x^{2}-1x}{2x+6x} \times \frac{1-2e^{-\frac{\pi}{4}}}{1-2e^{-\frac{\pi}{4}}} \times \frac{1-2e^{-\frac{\pi}{4}}}{1-2e^{-\frac{\pi}{4}}}$$

$$= 1 + \frac{ax^{2}}{1-x} + \frac{a^{2}x^{6}}{(1-x)(1-x^{2})} + \frac{a^{3}x^{9}}{(1-x)(1-x^{2})(1-x^{2})} + \frac{a^{3}x^{9}}{(1-x)(1-x^{2})(1-x^{2})}$$

$$= \frac{1}{1+\frac{ax^{2}}{$$

三等(2-+(为+,分主代+以(A ...)) 2-主乡大京《《生运诗·行·行·包+公司》 三世的第一世界是是我们一直的自己 + 4 (Cools + Cools + &c) - 4 (+ 1) F. H. は、一世美子ではまた。一次 第1年 - 元月 大小山山。 第1年 - 元月 大小山山。 公司中以下上了一个工作中的人 + 3.4.6. COPY + SINTE + 40 11 4. 2 8 Emiles + 2 Senter + 2 & Sinher people - 2 (States + 5 States + 1 /2 1 - 23 - 1 w)

$$\int_{0}^{d} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-bsi.x)\phi} = \int_{1-b}^{1-b} \int_{0}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} = \int_{1-b}^{1-b} \int_{0}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} = \int_{1-b}^{asi.x} \int_{0}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} = \int_{1-b}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} \int_{1-asi.x}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} = \int_{1-asi.x}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} \int_{1-asi.x}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} \int_{1-asi.x}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} \int_{1-asi.x}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi}(1-asi.x)\phi} \int_{1-asi.x}^{asi.x} \frac{d\phi}{\sqrt{1-asi.x}\phi} \int_{1-asi.x}^{$$

the x cost x Sin nxdx = They (1th 44) 11 + 11/82 Econo sub node = thirt the the the Those are true for all splies no property can be can be or to show that ascending to comony of the account of the Sewing the Good State of the St 2. If por = 4 + 3 = + 1 + 1 + 1 + 1 = 3/2 1 Harden hande there how to find the value of the nices 和红色 整 為大學 到十八人 27. 16/1 + 26/2 + 10/23 + . + 28/2 = \$400 ! pain = Ca + (18+18+12+12) + 18 (12) + 18 x + 12 x - 1 + Be n /2 8nd - By non-110-11(2 + 4 + 1) 11/11 and Chi = 是了 Con 是 1= 在下 是 第初十一日 2 100 (200) (2 Set Devede both sides in TX 1 by same of the (にはまたアルツをましましまり 3/ 21/21/22

$$\begin{array}{l} | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) + \phi(1) - \phi(1) | \\ | \phi(1) - \phi(1) - \phi(1) | \\ |$$

2 是相关的 (别) (别) (别) (别) (别) (是) 1元(ロナカノカナカナau) where or is the constant of May 1 May 1 &c as so that of front process fort = 1 +0+0 + 1 + n forter f(スル) = (パナレルナ : ・メル ノー) 五 二 一 はおとかり alvelled Biz 1 (11 & + 3) - Maille granda & B x 1-5 (1+ 2+5+ 5 1 5) + &c 29. \$ 00 - 20 (\$ 1) + 1 (x 1) + ... + \$ (x 1) } = (++1 - - - -) logn - Salign - (n+1) Co Carl. \$\pha(\frac{1}{2}) + \pha(\frac{1}{2}) + \pha(\frac{3}{2}) + \dots + \frac{1}{2}(\frac{1}{2}) = top n S-n = (n = to) Cn 2, \$1(-1) = 30 La + (- (2) Ca 13 \$ 6-11 + \$ (-1) = 2Ca + 12 (-1) Con The Con The 30 Hriseven 1 world かんかりータイントラルカンをはない Sol = 1 + 2 1 D = TTSCTA = TE /Se allo constatt valo 14 times

If Starcosnxdx = W(m) & dB = TT other a { \$ \$ \$ (0) + \$ (4) cosna + \$ (24) cosena + · + \$ (ma) Cosmad. = 4(m) + 4(cp-n) + 4(cp+n) + 4(cp+n) + 4(cp+n) + 4(612-n) + 4(60+n) + &c aid. inf. where ma is the greatest multiple of a less thank; but of he be a multiple of a the last term is & f (he) cos n hot; in both the Cases n less between O x 2 B. Sinny fordx = 17 / + + (0) - + (11) Cosn 17 + + (471) cos 2 m 17 -.... ± \$ (m 11) Cosm n 17. } - 2 ym+11 - 2 y (n+3) - 2 y 6+5) - oc ad inf.

to the period thereing true for all waters the 3/ 1/ 1/1/ + 2/1/2+ 3/ 2/1/x-4, Cap the 1 1 (p, 12-1) - 4, (2) } = 4(1) - 11 x log(25 in 32) where 4(0) = 50 1/x + 4 50 54 2 1 1/2 80 5 12 1 60 = tantx= (+5) tan3 11 1 (15+4) tanter ex 11. ya + 46 1) = tan #1 - tan " + tan 10 ; Mi. yle x) # = your - your - To locke cos in. 的事的主经(并于有过产之(1)一至 15 女性 3h+ 女性女性 = 不完任 man) To France of El. 4 2 - 4 (1) - 4 (1) 8. 24 (m) = 2 4 (ex) = ton TX - ton 15 x y langer Similarly we can find peculiarctic for five, for the IL STUZE + FESTINES + BE SENTER + FINE STUDENTER = E (count of Gants of trait - DE)

$$\frac{A}{G_{n}x} + \frac{a_{n+1}}{G_{n+1}x} + \frac{a_$$

$$\begin{aligned} & + \frac{1}{3} + \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} + \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} + \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} + \frac{1}{3} \cdot \frac{1}{3}$$

$$\int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xc_{s}^{2}\theta}} = \int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}}$$

$$\int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xc_{s}^{2}\theta}} = \int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}}$$

$$\int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}} = \int_{0}^{\infty} \frac{\cos^{2}(x \sin^{2}\theta)}{\sqrt{1-xs_{m}^{2}\theta}} d\theta.$$

$$\int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}} = \int_{0}^{\infty} \frac{d\theta}{\sqrt{(1-xs_{m}^{2}\theta)(1-xs_{m}^{2}\theta)s_{m}^{2}\theta}}$$

$$\int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}} = \int_{0}^{\infty} \frac{d\theta}{\sqrt{(1-xs_{m}^{2}\theta)(1-xs_{m}^{2}\theta)s_{m}^{2}\theta}}$$

$$\int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}} = \int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}} d\theta = \int_{0}^{\infty} \frac{d\theta}{\sqrt{1-xs_{m}^{2}\theta}} d\theta$$

$$= \frac{2}{2+(3n^{2})} \frac{(3n^{2})}{2+(3n^{2})} \frac{(3n^{2})}{2+(3$$

CHAPTERXIL to the an are positive integers, then $+ (n+4) \times \frac{(n+1)}{(n+4)} \times \frac{(n+n+1)(n+n+2)}{(n+n+2)} \cdot \frac{(n+n+1)(n+n+2)}{(n+n+2)(n+n+2)} \cdot \frac{(n+n+2)(n+n+2)}{(n+n+2)(n+n+2)} \cdot \frac{(n+n+2)(n+n+2)}{(n+n+2)(n+2)} \cdot \frac{(n+n+2)(n+n+2)}{(n+n+2)(n+n+2)} \cdot \frac{(n+n+2)(n+n+2)}{(n+n+2)(n+n+2)} \cdot \frac{(n+n+2)(n+2)(n+n+2)}{(n+n+2)(n+2)} \cdot \frac{(n+n+2)(n+2)(n+2)}{(n+n+2)(n+2)} \cdot \frac{(n+n+2)(n+2)(n+2)}{(n+n+2)(n+2)} \cdot \frac{(n+n+2)(n+2)(n+2)}{(n+2)(n+2)} \cdot \frac{(n+n+2)(n+2)(n+2)}{(n+2)(n+2)} \cdot \frac{(n+$ * (n-1) (x+4+2+4+2+1)(x+4+2+4+2+12)

* (14+2+4+2+4+1)(x+4+2+4+1)(x+4+2+4+1) 1. B. The above result is not true for all walnes of a, n, z, w and it. From example it is not true when x+4+x+w+n all the quantitates, 3, 4, 2 au in each term. Conless we get seld of this factor edentities declared from your to get into of the in to make it in front by qual The solution of this theorem is evident from the small 8 2+11 + 5 4+1 + 5 8+10 - 5 2+4+2 - 5 4+4+2 三 2+x+x 七三 x+y+x+x 一三分 = (1+ mil) = + mil y to the at not 2 + 7+ 5 + 5 mil + (+ min) (+ min) + (+ min) メレン・マンスとかがカルメナタナンははかけり、一手、後の () (+) (* + 7 + 2 + 4) This is the state of the positive integral walness. 1 al Sedetand both Socialis in XII I come or and the let a 1 / 2 7 4 and a wee position a topology

If sing = \frac{1+x}{1+xsin^2d},
\[
\begin{align*}
\text{Sind} & = \frac{1+x}{1+xsin^2d}, \\
\text{TI-\frac{1+x}{1-x^2sin^2d}} & = \frac{1}{\sqrt{1-\frac{1+x}{1-(1+2x) So 11- 23 2+x Sin 6 = So 1- x. (+x) sin 8 1/ 1+ sing = 1+ sind (1- x sind) 2. (1+x)2 \ \(\frac{d\tau}{11-r^2 \sin^2 \text{0}} = \ \end{alpha} \ \frac{d\ta}{11-\left[-\left] \sin^2 \text{0}} 1/ 1- Sin B = 1+ Sind (1+75ind) 1-x sind, If Sin(2/3-d) = 2 sind If tand = 11+2 3- So TI+xcold = So TI-25in48.

+ 1 (min +2) (x+4+2+n)(x+9)21 non) + 32 1 2-1) 7 (1-1: 2 (2-1) Devede both sides in ETEI by n, write - n+m for is and their makes or in famility great. \$ 2/2, 2, and in one positive integers them $\frac{(x+x)(x+n)(x+n)(x+y+x+n)}{(x+y+n)(x+x+n)(x+x+n)} = n +$ (n+2) x+n+1 x+n+1 (4+n+1) (4+n+2) (2+n+1)(2+n+1) (x+4+2+2m)(x+4+2+2m+1) + &c (x+4+2+ n-1)(x+4+2+ n-2) Sol. Put u=-1 in FU 1. Ex If the a possible se intiger show that (四月6日32 -1-3(對)) 经 +5(對 经 经) 经 经 -1() 经 经 经 经 经) 经 经 经 经 () 是 () 是 2、五三十一至二年十五三年 13-1 3x-1 + 2 (21) 32-1 3x+1 +80 3. (学月3(3x-2)=1+3(学科)337-15+5(学科 学品)332-17-15 1 = 1 + (2) 33 + (x(x-1) = x(x-1) = x(x 5. 多得是是一十五一新春十二日

n -+ (n+1) n-d+1 n-13+1 + (n+4) (n-x+1)(n-a+1) * B(B+1) + De (5 k+1 terms. $= \frac{1}{n-x-n} \left\{ (n-\alpha)(n-\beta) - \frac{(n-\alpha)(n-\beta)}{(n-\alpha)(n-\beta)} - \frac{(n-\alpha)(n-\beta)(n-\beta)}{(n-\alpha)(n-\beta)} \right\}$ The 8 d+ B+ Y+1=K, then (+1) LK LX LX - X (K+3) LL - K+1 K-B+1 K-74 + (K+5) K+2 10+2 10+2 1x+2 + &c to n terms - 2 log 20 when n lecomes infinite. =-=+-=++2C, 7

4. From all values of x, y, z and n, + (x+4). - (x+1) (x+n+1) (4x+1) (4x+1) (4x+1) (2x+1) (2x+1) (2x+1) (2x+1) Sol. Make a infinite in FIEL 6. 5 1 + 2 4+ - E x+y+ 2 - = 2 = (+ 711) x+x+1 4+x+1 St. Subtract both Sides in FIT 5 from or devide both section by I read then put 2=0. $\frac{1}{x^{2}+n}\frac{(n+n)}{(n+n)} = n + (n+2)\frac{1}{2+n+1}\frac{1}{2+n+1}\frac{1}{2+n+1} + 6x^{2}$ $\frac{1}{(n+2)}\frac{1}{(n+2)(n+n+2)}\frac{1}{(n+2)(n+n+2)} + 6x^{2}$ Sol. Part 2 = -1 6- FIL 5: 8. $21 \frac{12+7}{12} \frac{12+3}{12+12+12} = 21+(2+2) \frac{21}{12} \frac{21}{12} \frac{1}{12} \frac{1}{1$ Sol. wite - 1 - fo 2 is x1 5. 9. 18+18 19+18 18+2 19+2 = 1+ 11 x+n+1 19+19+1 + 21(n+1) (x+n+1) (y+n+1) (y+n+1) + 24 Est. Fut \$ = - 4 in XII 5. 1. 3 Theo significant to array in the as the isolated factors or, not not a disappear.

(1+x) \(\int \frac{d\theta}{\int_{1-x^2\sin^2\theta}} = 2 \int_0^3 \frac{d\theta}{\int_{1-\frac{x^2}{(1+x)}} \sin^2\theta} (1+x) /1- 6x sinp = 11-x'sind +x cood Jo JI- 15ing + Jo JI-xsing = 1 Teda if (1-x sind) (1-x fin /8) = 1-x. for dθ = 2 for JI- 2 sin't 1 tang = JI-xsing. Sin-18/43 de = 3/1+14/2+ white 4 dp + 40-254-10 = 1,

+ (n+1) (1+ n+1) (1+ n+1) (1+ n+2) + &C 11 12 12 + 12 + 21 - (m+2) 12 - 3+n+1 37 min + (n+4) or (n+1) (x+n+1) (x+n+1) (y+n+1) (y+n+1) (x+n+1) 12 + (n+1) + (n+1) + (n+2) + txc} - { (x+n+1) + (x+n+1) + 8xs} + (3.+ nt) - 3(x+v)(n+v) (x+n+v)(x+n+v) -box (n+4) - minty (x+n+1)(x+n+1) - xc (n+4) - minty (x+n+1)(x+n+1) - x(x+1) (x+n+1)(x+n+1) - (x+n+1)(x+n+1) 15: x+n -1 - x+n + (x+n +2) -&c 1 (x-1)(x+n) = n-(n+1) = x+n+1 -) (n+4) = 1 (1)(x+n+1) 17. x+n= n+ (2+2) x+n+1 + (2+4) (2+n+1)(x+n+1) $(R_{i} \frac{1}{(L^{2})^{L_{i}}}, \frac{1}{2m}, \frac{1}{2m} = n - (n+1) \frac{n^{2}}{2(L^{2})^{2}} \times + \frac{1}{2m+1} = n$ $\frac{1}{12} \frac{1}{12} \frac$ 1 (mm) 2 (2 m) 2 (2 m) (2 m) (2 m) (2 m) (2 m)

$$\frac{1}{a+z^{2}} - \frac{2^{2}}{4!} \cdot \frac{1}{a+1+\frac{2^{2}}{a+1}} + \frac{2a(2a+1)}{a+2+\frac{2^{2}}{a+1}}$$

$$= \frac{2(a-1)^{2}}{1+a-1}$$

$$= \frac{2(a-1)^{2}}{1+a+1} \cdot \frac{1}{1+a+1} \cdot \frac{1}{1+a+1} \cdot \frac{1}{1+a+1}$$

$$= \frac{4(a)^{2}}{1+x^{2}} \cdot \frac{1}{1+x^{2}} \cdot \frac{1}{1+x^{2}}$$

21.
$$\frac{2\pi k^{2}}{12} = 91 + (8+2) \frac{2\pi k^{2}}{12} \frac{2\pi k^{2}}$$

Cosinx dx = 17 12-4 sech 20 1 1+ (2) 1+ (2) 1+ (2) 1 1+ (2) 1 10 {1+图} {1+图} {1+图} (1+图) {1+图} = 1 (a-1 6-1 (a+6-1) 少 (1+ 荒)(1+ 荒)(1+ 荒)(1+ 荒). = $\frac{a \cdot c \cdot d}{(a+b)(a+c)(c+a)(a+d)(b+d)(c+d)}$ of B, 1, & d are the noots of the excention $\int_{0}^{\infty} \frac{dx}{(+\frac{1}{2})(1+\frac{1}{2})(1+\frac{1}{2})(1+\frac{1}{2})} = \frac{\pi}{2} \cdot \frac{s}{n-\frac{1}{2}s}$ $\int_{0}^{\infty} \int_{0}^{\infty} \int_{0}^{\infty} |(x+\frac{1}{2})(x+\frac{1}{2})(1+\frac{1}{2})(1+\frac{1}{2}) = \frac{\pi}{2} \cdot \frac{s}{n-\frac{1}{2}s}$ $\int_{0}^{\infty} \int_{0}^{\infty} \int_{0}^{\infty} |(x+\frac{1}{2})(x+\frac{1}{2})(1+\frac{1}{2})(1+\frac{1}{2}) = \frac{\pi}{2} \cdot \frac{s}{n-\frac{1}{2}s}$ x4-px3+qx2-nx+1=0, the

THE SOUTH - THE CHIEF IS TO COLOR BY 36 2 mm - 2 / = (1+ mir) x+n+1 + (2+ mir) (x+n+1)(x+n+1) サンタナを加一を共和二(1+ min) ででまれる 38 2 nt { not (n+1)3 + (n+2)3 + &c}. =(1+4)+ (1/2 + mor) (n+1) + (1/2 + mor) (n+1 mor) + de 39. 3 (+2) + (2+2) + 0 } - { (1+3) + 7 6 + 2 } = (1- 1/2) mil + (2- mil) enti) (nes) 1 to 40. = 4 + = 1 = (+ first) (u) + (+ + fit) " (Ex.1. (12)3 (3x-1) = 1 - 3 (3+1)3+5 (3+1 3+1) - 60 いっましまります (大井) ナラ (大井・ちたり) ナルシー 3. (1x) 14x , 22 = 1 + (2+1) + (2+1) + (2+1) + 0 x (2) -1-3(学計)+5(学和·学科)-&c 5. x=1+3 3/ +5 20 x+1 toc 是一个一个数据来,实在不是有点发育。 是明七三级十亿大区以上1十七·34

$$\int_{0}^{\infty} x^{m-1} \left\{ \frac{1}{2}(0) - \frac{x}{4} \frac{1}{2}(1) + \frac{x}{4} \frac{1}{2}(1) + \frac{x}{4} \right\} dx$$

$$= \frac{1}{2} \frac{1}{2$$

(1) 有十分起)十分(大和十分和十一次) 1-1- X-1 + 32 XHI X+L - 4 XHI X+L XXX + 200 1. (2(4x-3) = 13+33 34 +53 34 1 34+ + 60 == 1-5 (1) +9 (13) -12 (135) 3+ 200 でいく1+9は、十万はまり、十3万(13.7)。十五八十 1 = (to) = (1.2) - (1.3.5) 3 + 0.00 = 16: 1+ (4)3+(12)3+(125)3+&c=2{1 (2)+(42) + &c} 1. 1x+4+ = 1+ 1 + 1 + 1 + 1 (n+1)(n+0) + occ sol mute -n+m to 2 in III sand make n infe the coeff to of Ani (+A) 7+" (+4) = (+A) 1 = 17 = a + 7 = 4 + 6(0+0) = + 6(0+0)(0+0) = + 000 It Filest I from both Soles in til 41, deven by your 明 小山下一种两十二年1141 100 mm - 10

$$\int_{0}^{\infty} \frac{|x+d|}{|x+B|} \left(z \frac{1}{x+B} - z \frac{1}{x+a}\right) dx$$

$$= \frac{|a|}{|B|} \cdot \int_{0}^{\infty} \int_{0}^{$$

是一大十分和十份,如十份不完十份的 (((() () - () =) + 7 /3 + 1/2 () /5 + 8 C 5 1x+n (= x+n - 2 67) = 20 - 1 Cation to 1 (214) 1. (2 = 1 = 2 = + + - 2 (21) · 多生學病力生活。 1950年 7 Conte (1-1x) (27/x) L (8-2x - 2 = x + 1 2x - 2 (and) Santa E for the formet acount the 14. 11" = {a" 16+1)" } + } (a+0" - (b+1)" } (b+1)"+ side and far 16+10 + 16+10 = far (6+10) + 0+10 (6+1) 1 - 4 - 1 = 6 = 1 (6+1) + 6/6+1/(6+1) + 6/6 11 2 = (a+4+1) = +(4+6+1) = (4+1) = # # # # # # # # # # # Po + Po x + Po x + Box + Box the Product Production As + 2 to 1 March to governthing of Late Side of while

(3,0) f(c,d) + f(-a,-b) f(-c,-d)} floc, (d) + ad flock, (d) + be flock, as) + (ad) 360 f (ack, 6d) + (6c) ad f (6dx, ac) + (ad)6(60)3 f (ck3 (d)) + (60)6(d)3 f (60 k3, ac) f(a, b) f(e, d) - f(a, -b) f(e, -d)} af (a, a abed) + df (a, of abed) + a36c f (ax abed) + d36cf(x, dx abed) + abd (be)3 f(aki akaled) + adb(be)3f(ard aled) + we be be

of the wheatrof a, a, a, a, an taken a at a time the she = Pa+S1 + Pa+LS2 + Pa+S3 - Pa & S4 + De and Po=1 The The The most of the consider the n 1x+n p(n) where firs = 1 and R \$(0) = 5, \$(0.1) + 5, \$(0.2) + 5, \$(0.3) + 25 lon terms where Sie that contine to contract de の人 1+ + ラットナ 記す すいけることを - white part = 1 and 1 part = 5, part) + 5, part) + 5, part) + 5, part) 1 &c to a terms where &= 1 - 21 + 32 - 2+ 0,0 1 00 3. Tax + 2: fan + 24 gen + oc - pas where \$(0) = 1 and 1 \$(0) = 5, \$(a-1) + 5, \$(a-1) + 80 where Jan to the total ac. Solo White on P for in in III 43 and greate the coeffe of (41) + the + 1+5+5 + 1+5+5+5 + 1+60 = 25 Sall = (5, So + S, So + + S, So + + &c the last ter long Sa Sage 1 & Sol Say according as n is over model where In = for troin + defend suc and si = · 如用于一种() +()+()(生 - mea) +() + (g)()((mea) 自主了(0+2+50+4)+(每+50+6)与 the time of the state of the second and a second

$$\begin{cases}
P = \frac{1}{x + \frac{1-n}{2}} \frac{1-1}{x + \frac{1}{2}} \frac{1-1}{x + \frac{1}{2$$

1. If A-1 + ala-11 A2 - 110-1110 1) A3 + 8xx = Po, then Trans + mind P - ala-via u P + 810 = An. 2 + 1 - AL + 20+1 - AL - 180 (x+4) 1 + 1 (x+4) 1 + 31 + 1 (x+4) 2+2 + 84 3 1/ 1/2 + 10 sept + alared de jare + ac 向产生 为十贵人于贵人十贵人十七人 从一条五十管的一帮的大战。 Sate Multiply to the Velex in XIII 3 by x " in 1. Things 4+ 42 { \$\frac{1}{\phi(\alpha)}} + + + \frac{1}{\phi(\alpha)} \ \frac{1}{\phi(\alpha)} + + \frac{1}{\phi(\alpha)} \ \frac{1}{\phi(\alpha is always an even function of x whatever be open Set. 18 w Kinga XIII 3 - \$60) -Total & these is an over furtire of () I was course the value of Into depends conthe value ? But at a 19 th to 19 uny ver the cre chords 1 = 9-1 (5) B, A = (n-1)(n-1)(n-1) (30,46),

$$\phi(0) + \frac{m}{n} \cdot \frac{\phi(0)}{\square} + \frac{m(m+1)}{n(m+1)} \cdot \frac{\phi'(0)}{\square} + \lambda c$$

$$= \phi(1) + \frac{m-n}{n} \cdot \frac{\phi'(0)}{\square} + \frac{m-n}{n(n+1)} \cdot \frac{\phi'(0)}{\square} + \lambda c$$

$$\sqrt{\frac{2}{m}} \cdot \frac{1}{n} + \frac{2(1-m)(1^2-n^2)}{1+\frac{2(1+m)(1^2-n^2)}{3y+p+1}}$$

$$\frac{2(2-m)(2^2-n^2)}{1+\frac{2(2+m)(2^2-n^2)}{5y+p+1}} \cdot \frac{2(2+m)(2^2-n^2)}{5y+p+1} \cdot \frac{2(2+m)(2^2-n^2)}{5y+p+1} \cdot \frac{2(2+m)(2^2-n^2)}{5y+p+1}$$

$$\frac{2}{m} \cdot \frac{1}{n} \cdot \frac{1}{n} + \frac{2(1-m)(1^2-n^2)}{n} \cdot \frac{1}{n} \cdot \frac{1}$$

SAC HOS COMP FORMS XIII 3 W 1 A+ FA+80 = ex(A- ZA+ + 1 A 30) (A) (A) + をかけをかける)=をまり(人) - デルナギール) 1 1 th + EA + Thank (W) promison finelion of x was in even to coeff of x I must be o 1 + 1 - 201 (m+1) + 1/(C+1) ne(m+1) 200 + 1 1 m-n 1 + 2(0+1) (m-n)(m-n-1) (n-1)9+1+be set we have by (n+) (m+1 =) + 1 · m · m + 1 (k-1) · (m-n) (m - 1) · f &c multiplying both Sides by 18+ has 10+ R-1 - [n-1] 2n+ h-1 = 12+ k-1 - 12 - m-1 - 12 + h-1 - 12 - m-1 - 12 + h-1 - 12 - m-1 - m-The sources in which L H I is the couff . of gethe = that in which Rett's with saft soft gark 1+200 x + (n-1) 2 + (m-1) (mon - 1) mand Sol multiply both Sides in THE to bux make x he is the which that \$ = 4 type I'm - zate + arata travers The transfer of the transfer o 1 + 1 + 2 + 200 ment = + 200 ment man I mile manifement of

21.11年 + (日本十年) 年 + (日本) 日本 + (日 3 12 1 + (12) + (12) + (125) + (125.5.7) 3 + 80 一件十代十八十八十八十八十八 新州中国、千十(所)、平十(下)、千 84) = n/2-1)" + 2n-n-1 (n+1)(x-1)" + (n-n-1)(m+n-2) 9. 722 + 3 111 + 2(N+1) (N+1) + 26+1 + &c 10 to the things of the state o (4. 1-2) art {++ ab x+ acain Morn x++ &c = 0-21 f for man was a 4 major and in the Sel. Apply XIII to twoce. L. PA TANA TO IL TEAM INTERNAL Sol, By DIF We have PA (2-10-2) 10 PA (20) + PA (1)

= P(F-1) R(R-1) &c . &c &c all up all the results. = 12+1 19+2 - P. 12+2+4+1 = R. R. P. D. 12+4+2 12+40 16 # (# + (1) and + (2) not + (1.35) -/ atta + &c } = 1- 7 (3) 4 -2 (4-1) . (2-4) = n(x-1)(n-2) (2-4-6) + &c Coal. 发行传传节中假节中(设置) 生命五年十五一号はなる 1 10 h + (1) her + (1, 1) her + " > 1 = light is first while = -15. 1+n = + + x(x-1) - 7+n+2 - &c a star to the town to the town to the and a second of a 17.1+ 1 th (12) + a(1+1) m(m+1) (1+x) + be 2(+2)2 (1 + 2/3+1) 2 + 1/2 + 1/2 + 1/3+1/2 x4+4 18. 1+ = 20 - 20 + a(ay), october 1) (4x + 1)

$$\phi(0) + \frac{2\phi(0)}{11} \cdot \frac{m}{2m} + \frac{2^{+}\phi'(0)}{12} \cdot \frac{m(m+1)}{2m(1m+1)} + \lambda c$$

$$= \phi(1) + \frac{\phi''(0)}{2(1m+1)} + \frac{\phi^{1/2}(1)}{2(1m+1)(2m+3)} + \lambda c$$

$$= -m \times \left\{ 1 + \frac{1}{2} \cdot \frac{m}{11} \left(1 - e^{-2x} \right) + \frac{1}{3} \cdot \frac{m(m+1)}{12} \left(1 - e^{-2x} \right) + \frac{1}{3} \right\}$$

$$= 1 + \frac{A_{1}}{2(11)^{2}} + \frac{A_{2}}{2^{2}(12)^{2}} + \frac{A_{3} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2(11)^{2}} + \frac{A_{2} \times 4}{2^{2}(12)^{2}} + \frac{A_{3} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2(11)^{2}} + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2(11)^{2}} + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2(11)^{2}} + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2} \times \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1} \times 4}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1} \times 4}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1} \times 4}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1} \times 4}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1} \times 4}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

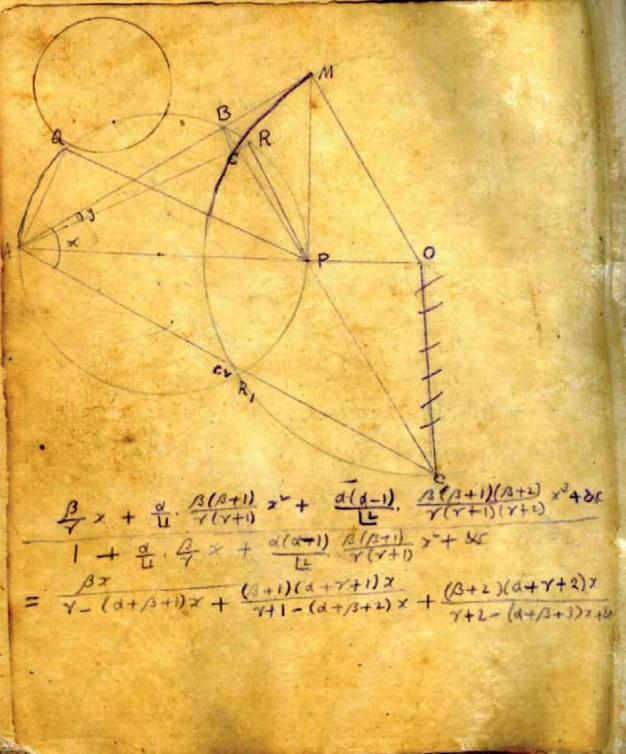
$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1} \times 4}{2^{2}(12)^{2}} + \frac{A_{2} \times 6}{2^{3}(13)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1}}{2^{2}(12)^{2}} + \lambda c$$

$$= 1 + \frac{A_{1}}{2^{2}(12)^{2}} + \frac{A_{1}}{2^{2}(12)^{$$

- 13952 3128 - 44

=0+11/1+ a. 1-m++ x+ + n(n+1), n-m+4)/2 m+/2/4/ (m+14)/m+14) 12. 12. 12. 200 + (2.x) 1 m(m+1) + (2.x) 2 m(m+1)(m+1)
1 m(2.m+1) + (2.x) 2 m(m+1)(m+1) = 1 1+ 2 1m+1 + 26 (2m+1)(2m+3) + 80 第一十七七十七日·卷十七日·卷七张· = + \$ 1+ \$ + FRE + FRE + &C } Ex.1, 1- 13 Th + 13 17 Th - ac = 0 4. 1一篇繁节岩点20° 800 = - (1 = 7 + 774 - 716 6 + 8.5) 20.1.1+ (1) (+) + (2) (+) + (2) (+) + (2) = (++) (1+(1)+x++(1)+x++(1)+x++(1)+x++ = 100 (1+ 10 x+ + 10 3 st 7 x 4 + 10 5 15 7 x 4 + 26) The same of the sa (m-m+14) 大小千人 2000年至7 (200日 / 个) ENDONE HE HAS OF YHE THE



 $\frac{2}{2} \sum_{k=1}^{N} \frac{2x}{1+x} + \frac{2(a+1)}{1+x} \frac{(a+1)}{2n(2m+1)} \left(\frac{2x}{1+x}\right)^{\frac{1}{2}} + kc$ 1+ (2m-1)(2m-11) >(2+ (2m-1)(2m-11) x (2m-2+2)(2m-2+3) 24+ &c) (2 mont 1) (2 mont 3) 3-1. Apply ETT 11 in R. H. S F XIII 17 3. 1+ A(n+1) . 4x + A(n+1)(n+1) \ 4x \ + 24(1m+1)(1m+1)(1+1) \ (1+1) \ . + 3. Sol Combine the results of 1811 17 8/8. 4. 1+ alasti - (+x) + alasto(a+v)(a+v)(a+v). xi = (+x) 1+ (1) + + (1) + + (1) + x + + (1) + (1) + (1) + x + bo 11. 1+ 1 m of 16 memor) + 13: memoriante + 1/2 大十七年十二年 新州 一 是 mines 10 11 = 1+ 2 m+n + 2h (m+n+1)(m+n+i) ままでかられると)(コルマカーを)(コルカナイ) + 次に Of the said with him to Marth With the The Depter of the State of the of last treat to last X (-第一个人的是不是是是一种的人性 dead in encession to be light in had be a superior to the state of the state of the

$$\frac{1}{1+\frac{a_1x}{1+a_2x}} = 1-A_1x+A_2x-A_3z+1$$

$$\frac{1}{1+\frac{a_1x}{1+a_2x}} = 1-A_1x+A_2x-A_3z+1$$

$$\frac{1}{1+\frac{a_1x}{1+a_2x}} = 1-A_1x+A_2x-A_3z+1$$

$$\frac{1}{1+\frac{a_1x}{1+a_2x}} = A_1$$

$$\frac{1}{1+\frac{a_1x}{1+a_2x}} = A_2$$

Coul. & 1 + 2 - 1+ 1 + 24 (1+1)(1+2) + &(6) = 1+ 12 . 21 + (3x) + 21(x+1) -+ &c." 2, 11+ 3. - Ent + 18 (CHT) (CHT) + BC) = 1+ Trimer + The intention (Ent Dient 1) + &c 在1114年中世十份·董十九日 至十九日 2. 1年台前一十元 流江十七点 元十七点 22. 11+ 1 m+1 (m+1) + 1 (m+1) (m+1) (m+1) (m+1) (m+1) * 1 = 1 min wil " (m+1)(m+1) (n+1)(m+1) - by = 1 - 1 (m+1) (m+1) (m+1) (m+1) (m+1) (m+1) + 25 (m+n+5)(m+n+6) . (m+1)(m+1)(m+3)(m+4) > 46 (m+++7)(m+++21 m+ i+7) 16 (may) (may) worth (may) (may) > bx+11(n+1)(n+1)(n+1) X Jours Hart Mint & Mint of front Stomes & gradient chart succession the 11-11 W French men + 1 proportion ment (may) (contin The the man out of the conventional continue + or 八十七年 经经验产业 经股票 十七十二十

= ex+ excos 27 Cos(xsin 27) + excos 4 Tes (sin 2) + xc to nterns.

+ xc to nterns.

+ xh-n / + (xh+in xh-in) - s

- xh + (thin + thin) + (h+in + thin) - s = 1+ (=+ ==)+ (=+ ==)+ (= + ==)+ (= =) }

{6m2+ (3m3-m)} + {6m2- (3m2-m)} $= \{6m^{2}(3m^{2}+1)\}^{2}$ {m=3m4(1+p)+m(3.1+p2-1)} $+ \left\{ 2m^{6} - 3m^{3}(1+2p) + (1+3p+3p^{4}) \right\}^{3}$ $+ \left\{ m^{6} - (1+3p+3p^{4}) \right\}^{3}$ = {m?- 3m4 p + m (3/2-1)} 中では、まかいまやは、+中心+中で * 1 d/ = e : 1 km km (+ a);

to 1 (2 man + 1) (1 m + n + 7) (1 m + n + 9) (2 m + 1) ((m+1) (m+n+1)(m+n+3)(m+n+3)(m+n+4) - 104/Xm+2Xm+1Xm+1 (n=2+)(n=4+) + &C 12 (1+ 2 m+1) + 2 m+1) (n+2) + &c) 11- = = + = m(m) - &c} 生くしてきかれてきからののころかりまして X 1 = 2 mn + 2 mo(m-1) n(n-1) - &c} =1 + 1 20 = (m+2-1) + 2 m(m-1) n(n-1) my n-2) = 1 13 m (m-1)(m-1) n(n-1)(n-2) (m+n-1)(m+n-4)(m+n-4) + 8 21. 11+ 2. m + xt m(m+1) + &cf *1+ を 2 + を (2m+n+1) 元十 を (2m+n)(2m+n+1) 元 + を (2m+n+1) 元 + を (2m+n)(2m+n+2) 元 + - (2m+n-1)(2m+n+1)(1n+n+3), (2m+2)(n) 西京中華中華中華十十八四時中華 (到下世间之子世四) ~ 是面, ~ 十多。

$$\begin{array}{c}
1 + \frac{1+x}{1+x} \frac{mn}{m+n+1} + \frac{(1+x)^{2}}{1+x} \frac{m(m+i)m(n+1)}{(m+n+1)(m+n+2)} + \\
= \sqrt{\pi} \frac{\frac{m+n-1}{2}}{\frac{m-1}{2}} \left\{ 1 + \frac{x^{2}}{1+x} mn + \frac{x^{4}}{1+x} \frac{m(m+2)}{x} + \frac{x^{4}}{x^{2}} \frac{m(m+1)(n+1)}{x} + \frac{x^{4}}{1+x} \right\} \\
+ 2\sqrt{\pi} \frac{\frac{m+n-1}{2}}{\frac{m-1}{2}} \left\{ \frac{x}{1+x} + \frac{x^{3}}{1+x} \frac{(m+1)(n+1)}{x} + \frac{x^{4}}{1+x} + \frac{x^{4}}{x^{4}} + \frac{x^{4}}{x^{4}} \right\} \\
+ 2\sqrt{\pi} \frac{\frac{m+n-1}{2}}{\frac{m-1}{2}} \left\{ \frac{x}{1+x} + \frac{x^{3}}{1+x} \frac{(m+1)(n+1)}{x} + \frac{x^{4}}{1+x} + \frac{x^{4}}{x^{4}} + \frac{x^{4}}{$$

3.
$$(z+z+z+z) + (z+z) + (z+z)$$

$$\frac{1}{(\frac{1-\alpha}{2})} \sqrt{\frac{2\pi}{2}} = 1 + \frac{1}{\sqrt{(\frac{1}{2}+1)}} + \frac{1}{\sqrt{(\frac{1}+1)}} + \frac{1}{\sqrt{(\frac{1}{2}+1)}} + \frac{1}{\sqrt{(\frac{1}{2}+1)}} + \frac{1}{\sqrt{(\frac$$

x & pt with be par of and alto be far thetay p to wette be of Far wy For themath = f Far. (ii) if pot 29th be F \$ 60) & F you the note = F f(x) Thus we may add or subtract any constant (& multiply or divide by anyonstant) to x in each function or to each function II-x+ + + x / the net = (2+1)-1 I = x II=x+4x the x# = {(\sum x + 4x)^n - (\sum x + 4x)^n - (\sum x + 4x - 1x) IEX I = x #=x=2 thont = (x+1x=4)+(x-1x=4) # = (1-x)2 - (t - {(1+1-x)^2+1-1-x)-} of Jer & II x + 2nx, the $III = x^3 + 3nx^2 + 3 \cdot \frac{n(n+1)}{2} \times - \frac{n(n-1)(n-1)x}{2}$ Regiever Series = x(1-11) 3/2 to any formany the or more generally if for &Faite that & \$ \$ \$ f(a) = \$ \$ \$ f(a) = \$ \$ \$ (a) , Then

$$\frac{CHAPTEK XIV}{= a_1 D_1 - a_2 a_1} + a_1 a_2 a_2 - a_3 C I$$

$$= a_1 D_1 - a_2 a_1 + a_2 a_2 a_2 - a_3 C I$$

$$\frac{1}{1 + a_1 + a_2 a_2} + a_2 a_3 a_4 D_2 = l_n D_{n-1} + a_n D_{n-2}$$

$$\frac{1}{1 + a_2 a_2} + a_3 A_{n-2} + a_4 A_{n-2} a_4 A_{n-2} - a_4 A_{n-2}$$

$$\frac{1}{1 + a_2 a_2} + a_3 A_{n-2} + a_4 A_{n-2} - a_4 A_{n-2} + a_4 A_$$

the function for the 1 to degree = \$ - 1/4 (7)} The self-repeating series for m/ \$ (2) where non any quantity and \$(1) any known function. supposing the server to be spece S(1). This $\frac{SF(x)}{Sf(x)} = \sqrt[n]{\frac{1}{q}} \cdot \frac{\sqrt[q]{f(x)}F'(x)}{\sqrt[q]{F(x)}f'(x)}$ $\sqrt[q]{g} = e^{-2\pi i \cdot \frac{1+\sqrt[q]{f(x)}+\sqrt{g}}{1+\sqrt{g}}} \times + \frac{g^{5}y^{3}+4x^{6}}{1-y^{3}}$ $\sqrt[q]{g} = e^{-2\pi i \cdot \frac{1+\sqrt{g}}{1+\sqrt{g}}} \times + \frac{g^{5}y^{3}+4x^{6}}{1-y^{3}}$ $\sqrt[q]{g} = e^{-2\pi i \cdot \frac{1+\sqrt{g}}{1+\sqrt{g}}} \times + \frac{g^{5}y^{3}+4x^{6}}{1-y^{3}}$ $\sqrt[q]{g} = e^{-2\pi i \cdot \frac{1+\sqrt{g}}{1+\sqrt{g}}} \times + \frac{g^{5}y^{3}+4x^{6}}{1-y^{3}}$ = 11 + 1/2 x + x (1-2x). = {1 + == x + se} (1+82). $= \left\{1 + \frac{2^{5}y}{3^{2}} + \frac{2^{5}y^{2}}{1 - y} + \frac{3^{5}y^{3}}{1 - y^{5}} + 4x^{5}\right\}$ My = e-71/2: 1+ 17/2 x + 4. they 1+ 840(中, + 平, + 4) =(1+ 27+4) (1+32), 1-50.4 (154 + 2 4 + xx)=(1+1.3 x+1x) (1-9x).

Con. 1. 接一丁十生子等十分十九二十十 $2. \frac{1}{1+\frac{6}{3+\frac{6}{5+\frac{10}{7}+6}}} = \frac{4}{1+\frac{6}{3+\frac{6}{5+\frac{10}{7}+6}}}$ $2. \frac{1}{1+\frac{6}{3+\frac{6}{5+\frac{10}{7}+6}}} = \frac{4}{1+\frac{6}{3+\frac{6}{5+\frac{10}{7}+6}}} = \frac{4}{1+\frac{6}{3+\frac{10}{5+\frac{10}{7}+6}}} = \frac{4}{1+\frac{6}{3+\frac{10}{5+\frac{10}{7}+6}}} = \frac{4}{1+\frac{10}{3+\frac{10}{5+\frac{10}{7}+6}}} = \frac{4}{1+\frac{10}{3+\frac{10}{5+\frac{10}{7}+6}}} = \frac{4}{1+\frac{10}{3+\frac{10}{7}+6}} = \frac{4}{1+\frac{10}{7}+6} = \frac{4}{$ integer and of Note = n+qua + n+3-a + a-u

Note the More lit of wall the numerators and the idenominators (into If V= p(n), then D = p(n-1). 2. $\frac{n^3 + 2n + 1}{(n-1)^3 + 1(n-1) + 1} = \frac{n}{n-4} + \frac{n+1}{n+3} + \frac{n+2}{n-4+3} + \frac{n+2}{n-4+3}$ 11. 1= x+a (x+a) = a + (x+a) = that at at at a condition of 12. 27 17 24 4 1 to 2 ntum

$$\sqrt{2} \left\{ \frac{1}{2} + e^{-\frac{\pi x}{x^2 + y^2}} \cos \left(\frac{\pi y}{x^2 + y^2} \right) + e^{-\frac{\pi x}{x^2 + y^2}} \cos \left(\frac{x \pi y}{x^2 + y^2} \right) \right.$$

$$= \sqrt{3x^2 + y^2 + x} \left\{ \frac{1}{2} + e^{-\pi x} \cos \pi y + e^{-4\pi x} \cos \pi y + e^{-4\pi x} \cos \pi y + e^{-4\pi x} \sin \pi y + e^{-4\pi x} \cos \pi x + e^{-4\pi x} \cos$$

13. a,46 a) a+ a+ 4 a+ a+ a+ 4 exc 東京中央中央中央中央中央で 14. (ont) (nt) - (nt) + 6xc = m+n+1 + mn + (m+1) (m+1) + (m+1) (m+1) 15. $\frac{a_1x}{l_1 + a_2x} = T_1x - T_1x^2 + T_2x^2 - 30$ Let Pm = a, an ... and and Tm-Pm = tony then 不是一万二日 To C4 - T3 = 0 事与一世上 Mt Talon, 11= To Ta-Ta 75 - To = No where N = To To - To = Azn 11. (x+1) - (x-1) " (x+1) "+ (x-1)" del. tad = + 5+ 5+ 1 + 10+ 60 3 Car to 3 · 一种

$$e^{-\sqrt{11}\sqrt{1}} \frac{1+\frac{113}{4}(1-x)-\frac{1}{4}}{1+\frac{113}{4}(1-x)} + \frac{1}{4} \frac{1}{$$

7.
$$\frac{2}{1+\frac{1}{2}} \frac{1}{1+\frac{1}{2}} \frac{1}{1+\frac{$$

THE RESERVE OF THE PARTY NAMED IN

$$A' y = e^{-277 \cdot \frac{1 + \frac{1.5}{6.5}(1-x) + \frac{1.557}{6.10}(1-x) + \frac{1.557}{6.10}(1-x) + \frac{1.557}{6.10}(1-x) + \frac{1.557}{6.10}(1-x) + \frac{1.557}{6.10}(1-x) + \frac{1.557}{6.10}(1-x) + \frac{1.557}{1-y^3} + \frac{1.557}{1-y^3}$$

$$\begin{array}{lll}
\mathcal{S} & \chi = \frac{1}{2} \frac{3(2+1)}{1+2} & \text{and } \chi = \frac{27}{4}, \frac{(3+1)^{2}}{(1+1)+1} 3 \\
\mathcal{S} & \chi + \frac{1}{2} \frac{2}{2} \frac{45}{6} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{2} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \lambda \chi^{2} + \frac{1}{2} \frac{1}{4} \frac{1}{6} \chi^{2} \\
&= 1 + (1)^{2} 2 + (\frac{1}{2} \frac{1}{4})^{2} \chi^{2} + \frac{1}{4} \chi^{2} + \frac{1}{4} \frac{1}{4} \frac{1}{4} \chi^{2} \\
&= 1 + (1)^{2} 2 + (1)^{2}$$

Sol Water to for a in 218 18. Subtract both side from and request the receptoreals of the result Coll to the my matter of and motion to the m+1 + 13 (m+1) x max of mellow is the 2 2 2 2 2 2 2 ×+++++1 | x-2++ + | ×++-+ | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x + | x 第二年(1945年)(345-17) (m) = 3+)(m=34)

$$\frac{1}{\sqrt{1+\frac{1}{2}}} = \frac{1}{\sqrt{1+\frac{1}{2}}} + \frac{1}{\sqrt{1+\frac{1}{2}}} = \frac{1}{\sqrt{1+\frac{1}{2}}} = \frac{1}{\sqrt{1+\frac{1}{2}}} + \frac{1}{\sqrt{1+\frac{1}{2}}} = \frac{1}{\sqrt{$$

$$\int y = e^{-\frac{2\pi}{3}} \frac{1 + \frac{12}{3}(x) + \frac{12}{3}(x) + \frac{14}{3}(x) + \frac$$

$$1 + 6\left(\frac{1}{e^{4}-1} - \frac{1}{e^{4}+1} + \frac{1}{e^{4}+1}\right)$$

$$= \frac{4^{3}e^{3y}}{4(e^{3y})}(1+4+1+1)$$

Coc. (1) + (1+1) + (x+1) + &c 3/1x+x)3+60(x+x)+70(x+x)+400 \$ 178 \$ \$(4) = 571, \$(1) = 1015, \$(11) = 1384, \$(1) = 1679, $\phi(z) = 1916$, $\phi(z) = 2093$ nearly and $\phi(\infty) = 2530$.

If h is a positione project fraction, then $\phi(z) = \frac{3}{4} \frac{1}{4} \frac$ is called a perfect series. Hence we see that the series to + + + h + b + &c is only perfect when A-1+ + is are all equal to p. I have 1+ + + + F. + is prespect \$ 400 + 400 + 400 + 400+ 20 32 just in said, the 90 + { \$ \$ \$ + 1) + \$ (x-1) \ + \ \$ \$ (x+1) + \$ (x-1) \ + \ \$ \$ (x+1) + \$ (x-1) \ + \ = 40) + 14(0+1) + 4(0-1) + 47 (0+2) + 90=) + 80) = (An + An + + An + acl cuf.) -(A-1+A-2+A-1+ b) ad F-1 /mish of Bowle also person that a to the diff it is in = (Ao-Ante) + (A) - Ante) + (h-Ante) + Com con. 407+ 7 40) 4 2(2-1) 4(2) + 30 20 4-= \$60 + 1 \$600 + 1600 \$600 + 200 11 22 400 But If wither what of in were VI + 20 + + 400 White the design of the party of

value of m, n &x, $t = \frac{\pi}{(m+1)x + 1 - \pi} - \frac{1(1-n)(1+x)}{(m+1)x + 3 - \pi}$ 2(1-n)(1+x) (m+3) x+5-n-00 30.1+ A+1 + (n+1)(n+1) + &c 4 = 1 = - 21 - 111-m = 2(2-m) = 2(3-m) 二等等等等外界。 Ex. 1. 2 - 31 + 31 - &c = & VII when x = 00 2. x- 31 + x5- & = VZ (= +6/2x) when 3/1+7.3 + 7.3.5 + 7.3.57 + 7.3.5.7.7 + 2.6 = 1开学一文千十十五十十二十二人 = J#x = 2 - x+1 - 12 x+5 - 5.4 - 5.41 - 6.5 松為一篇十五十六。 2 中国文十里一中风 (3) 新安村一学工 of (x+1) = x) 4 m/ sure sit will when x is quarter 中的 推好 情况

$$\frac{\psi(x^{7}) \psi(x^{9}) - \psi(-z^{7}) \psi(-z^{8})}{\psi(x) \psi(x^{63}) - \psi(-z) \psi(-z^{63})} = x^{6}$$

$$\frac{\psi(x^{5}) \psi(x^{11}) - \psi(-z) \psi(-z^{63})}{\psi(x) \psi(x^{53}) + \psi(-z) \psi(-z^{53})} = x^{6}$$

$$\frac{\psi(x^{5}) \psi(x^{11}) - \psi(-z^{5}) \psi(-z^{11})}{\psi(x) \psi(x^{53}) + \psi(-z^{5}) \psi(-z^{53})} = x^{6}$$

$$\frac{\psi(x^{3}) \psi(x^{13}) - \psi(-z^{5}) \psi(-z^{5})}{\psi(x) \psi(x^{3}) - \psi(-z^{5}) \psi(-z^{5})} = x^{3}$$

$$\frac{\psi(x^{3}) \psi(x^{13}) - \psi(-z^{5}) \psi(-z^{5})}{\psi(x) \psi(-z^{53})} = x^{3}$$

$$x \psi^{5}(x) \psi(x^{3}) - 9z^{2} \psi(x) \psi^{5}(x^{3})$$

$$= \frac{z}{1-x} - \frac{z^{2}-z^{2}}{1-x^{2}} + \frac{z^{2}-z^{4}}{1-x^{4}} - \frac{z^{2}-z^{5}}{1-x^{10}} + x^{6}$$

$$= \frac{z}{1-x} - \frac{z^{2}-z^{4}}{1-x^{4}} + \frac{z^{2}-z^{4}}{1-x^{4}} - \frac{z^{2}-z^{5}}{1-x^{10}} + x^{6}$$

$$= \frac{z}{1-x} - \frac{z^{2}-z^{4}}{1-x^{4}} + \frac{z^{2}-z^{4}}{1-x^{4}} - \frac{z^{2}-z^{5}}{1-x^{4}} + \frac{z^{2}-z^{4}}{1+x^{5}} + \frac{z^{2}-z^{5}}{1+x^{5}} + \frac{z^{2}-z^{5}}{1+x^{5}}$$

If " = 11-8 then x = 100 x - 8.6 + .81 very nearly 11-18 x = 1080 + 6.340 - 4.45 to applaces of december a 1/x < 7, 14-0 = 1000 to a place of discount. x=1174 when 6= 10 and 0=5.6 when x=4. 中的= 会一等 + 等一 - 本が スキルナノー アイルナル コイトル Con 音+ 管(++)+ 管(++++)+ (c) = e *(0+log x) + xp(x) where of the term independent of pin at it and 10 400 - 400 = 4 xx 大田=世十九四×1"+n去しかりを一大いではしていい、十 where 12 = 40 - 42+ 12 = - 43 = + 40 An = 80 Ann + 6-7) Se An-ett (1-1)(n-1) Se An-et &c 13 = 1 + 18772158849 x + 19890 5 80172 2 2 1 - 1907479 0803 x3 + 19817280985 740x x=1,0= \$ x=2: 4= \$2 x=6,0 28 原生 對 等等 化对象 包(和一龍+菇、洗洗、大花~~~) 是一种的人的是一种。 1 = 72 show x tecomis infinitely yearst

CHAPTER XV 11+位11-参加十一位1111-参加十一名 一一一 to strays on from Ametion of a 1+(4) (1-1) + (11-2) (1-2) + (1-315) (1-2) + 300 1. 1+ (E) (42 - 1) + (1+3) () + (1+2) () + bc =1+2) {1+14) * 2*+ (は) * 24+(1-3-1-) * 24+4-() con. 1+ (2) { \$2(1+2)4 } + (1.3) + { \$2(1+2) } + &c =(1+2) [1+(2)] +((2)] + ((2))] + + ((2))] 1+36 4.1+代学科+(记)(科)+(记) 三小文(十十号 2+ 13 15 26 + 40) =1+(4) x+(1.5) x++(1.57 1) x 2+ 000 1+(+)3x+(12)3x++(125)3x2+(125)3x2+26 到十年(上年)十年(1)(上北天)十二、下 The Let $\pi d\beta = 1$ and $\alpha = \frac{\sqrt{\pi}}{(1-\lambda)^2}$ which it £ = 1.180340,599016,092 3 = 1269 676, 300 574, 197 4 = 8.708 144, 354602 131 18 Then are to solutions on The

$$\psi(x) \psi(x^{5}) - \psi(x) \psi(x^{5})
= 2x f(x^{5}, x^{4}) f(x^{40}, x^{80}) + 4x^{15} \psi(x^{6}) \psi(x^{120})
\psi(p) \psi(9) = \psi(p9) + pf(x, p^{2}) + pgf(x^{2}, x^{2})
+ 16 y 3 f(x^{2}, x^{2}) + 2p f(x^{2}, p^{2}) + 2p f(x^{2}, x^{2}) + 2p f(x^{2}$$

$$\begin{array}{c} |S| = |A| \frac{|Q + Y|^{2}}{|Z(1 + y)|} + |A| \frac{|A|}{|Z(1 + y)|} +$$

$$\frac{x \psi^{2}(x) \psi^{2}(x^{3})}{-x_{1}} = \frac{x^{2}}{1-x_{1}} + \frac{x^{2$$

= 20 1/1+ (2) \$1-10+ (b) 10V 11 1 1.74 建备+(H)*(图)+参=提(++是折斗号) (并到例+性)(例+de= 語(1+性,有e+以后,为) 11年代中共代告十十五十五年 (4) 第一个图"十年(长年)"一种(4) 10 ++ (4) + # # 医子传学子(学校) 生命一 17. 1+(物)3+(小子)3+ 19 1年9日十四日十四日 1+9(4)+17((3))+17((4))+17(4) 20. 5# 5 Ja- Sint o Sunt of Sunt 4 - 1 1 1 1 - 5 - 4 9. If for can to expensed in n different we att way doing to + Va and of or to edintedally

\$60) la+n (6+n 1-n-1 - 9/n+1) fa+11+1 (+n+1 1-2+ b) + \$\frac{4(0) - 2\frac{4(1)}{2} + \frac{4(2)}{10 + 6 + n + 11} + \frac{10 + 12 + 12 + 12}{10 + 6 + n + 11} + \frac{10}{10} The irreducible part in 1-24 \ (1-9) cos28 2 + \ (1-84) \ (1-84) \ = \ \frac{4}{(1-9)} \cos40 + \ \frac{4}{(1-9)} \cos40 + \ \frac{4}{(1-9)} \] + 8 {1-24(= y + = y + xc)} { abd + 4(= sin 28 + 1- 1 hin 40 + (c)}

一方の 中の十十年 神神 10-2) 40) + (1-2) 4(1) + (1-x) 4(3) + 2c = a, - a, x + a, f = a, x3 + &c (62+x) + P, 62+x + P. (62+x) + P. (62+x) + D. then \$(m)(=2) + \$(m+1)(1-x)^m+1+ \$\phi \text{ for } \frac{1}{2}(1-2)^m + \frac{1}{2} \frac = Po - P, x + P, x2- P, x2+6,0 + (1/2 t-x) +1 1/6+ 1/6 t-x + 8/2 1-1) +6-5 Con 8. If a+1+c+1 = d+e; then TELE + TE MATERIA + (J-X) = Late LATE + OF + 69 x when x = 0, $= - = \frac{1}{a} - \frac{1}{a} + \frac{1}{a} + \frac{(a+1)(a+1)}{(a+1)(a+1)} + \frac{1}{a} + \frac{(a+1)(a+1)}{(a+1)(a+1)} + \frac{1}{a} + \frac{(a+1)(a+1)}{(a+1)(a+1)}$ 11. La 16 { La+6++++ + 1-x. (c++++) (6+ n+) + &c}. + = { |a | 6 | 27-1 - = | 10+1 | 6+1 | 14-2 + B.C This is then he all quities of V. B. Sof is an integer R. H. S. takes the from come should write mit was west that and

1/ 26 = (1+x)(1+2+2) 1/ 26 = (1+x)(1+2+2) 1/ 25 = (1+x)(1+e-mMT)(1+e-37MT)(1+e-577MT) &c. 18-1 10-1 1-8-1

Cor. 1. Hors a positive integer TOTAL STATE OF THE + 60" (ta+) (= a+ + = -t+ - = + -0) 1 = 1 + n+1 (= 1++1 + = 1++1 = = 1+1 = 1 + 22 parti Chart (5 and + 2 2+2+2 20+2 + &c = 7 10 16 10-1 - 2 10+1 16+1 1x-1 + &c to x terms at 2. If nis a negative integer, [a] { [a+k+n+] + [- * [a+k+n+]] + \$,0 +620-0 (=+==-=-0) 4年世世 一年 かりとはまりま 一九 + x = 10+1 (1+2 (+ 1+2 x = 1+2 + & = | 1 at n | Evn | - H-1 - 2 | Grad | 10-2

$$|a|b = \frac{|a|b}{|a+b|} + \frac{|a|b}{|a+b|} + \frac{|a+b|b|}{|a+b|} + \frac{|$$

THE THE PARTY OF THE 18 子位任(三大十年十一世)十十二世世世(三六十三七月一七八) + x2 142 1 = 4+1 + = 1+2 - 2 4) + 0, c Con # {1+(4) 61-10+(113) (1-x) + (1175) (1-x) 76 } = (60 \$) (1+16) x + (13) [x++(16)] = 1+ (2) -4 (H) 100 x + (1/2) 2 (1/2 + 1/3 4) x 4 & 6 } En 1 4 SESE tamine dodg = 77 / # d.0 + loz k / 17-48-50 2 (10 1) + (mp) 11+1 + (10+1 16+1 + 60 6 m6.m - 1++++++ + & + & + & & to a terms & where a - co 不到一份一个公司"大使打了一个人"一个一个一个一个 国第二十二次,中国和中国的一大大学的一个一个

1 = - (c) = - (c) (3-1) xx (1-x) 9 11 + & 3 x+ a (4+1) (3/(3+1) x+ 8/1) + 8/1 3/4+0+1=1+2 3(1-x)+, a(a+1) 3(0+1) (1-x) + 4x 1+ 2 2 (-1-1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 2 2 (-1/1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 2 3 (1-1/1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 3 3 (1-1/1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 3 3 (1-1/1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 3 3 (1-1/1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 3 3 (1-1/1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 3 3 (1-1/1-2) + 2 (2+1) (1-1/1-2) + 2 c × 1+ 3 5 (1-1/1-2) + 2 c

W. 对提生力 14 中間= サーラーラーラナル $|\phi(x)| = \phi(x) + \frac{1}{2} \left(\frac{|x-\xi|^2}{|x|^2} \right)^2$ V1-1+(3)+(26)+(26)+(26)+ &c tentions = 7 4 (n+6) 一九(九十分十分一方十八人) in 1+ (3) = (1+1) + (2) + (2) + (2) + se to ntime = 20/10 14. 1 - in + (a+6) + 1 (a+6) m + (a+36) m3 + Exc # a (1-m)(1-0) + (a+6) (1-mx)(1-mx) -(mxx) -(a+26) (1-mx) of (max 4) = (a + 34) = 16 m 23) (10 m 23) (10 (m 23) + Bec + to fine + for not + for not + for not + for not + Contint + (a+6) m + (a+16) m + 40 = a. 1+m + (a+4) + m+ (m'n) + (a+66) + mx +6 (1-m) + 1 mix + 1 mix + mix + mix / 1 mix in to by the democration were to make the me there, 辛+辛+子·桑·· 三世 大方 大元 大流 大流 as the training of and the day of the 17-6 1+60 1+60 1+60 ec

$$f(x^3, x^6) = \psi(x) - x\psi(x^9)$$

$$= (\alpha + 1)(b + 1)(c + 1) + (\alpha - 1)(b - 1)(c - 1)$$

$$= 2(\alpha + b + c + abc)$$

$$= \frac{d^{2}(0)}{d^{2}(0)} + 258272 + \frac{d^{2}(0)}{d^{2}(0)} + \frac{d$$

展 をはす(を)=1+(++++++++)+(ドナッ)+(トッ)*(トナッ)+(トッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トナッ)+(トゥッ)*(トゥ)*(トゥッ)*(トゥ)*(トゥッ)*(トゥ)*(トゥ)*(トゥ + (1-91) 10 (15+95) + 8x , then $f_{i}(x,y) = f(y,y), \quad \text{if } f(y,y) = x f(y,y), \quad \text{if } f(y,y) = 0$ 1, +1 is any integer, then

+ (p, 2) = p reserved nearly f { | p (p) , in (p) - 2 }. There is resulted as a condent from the series etails. 16.+169) = (++ b) (1+kb) (1+kb) (1+kb) &c × (1+8)(1+44)(1+ 1/4)(1+1/4) &c 大 (1-19)(1-11-11)(1-11-11)(1-11) なく where A = Age + Sol. Since y (-1, p) = & by iii, we see from it that if thet 9 (44) = -1 then for 1)=0 i. (1+ 1/2) 6 (1+ 1/2) of flash. Havin we see that if (49)=1 then 大便到到一个国际(主义 ·) 了你们一个一个一个一个 自己是例如于 = 1 (中中国的)(1+多点7)(1-产业外外 = f(k,s) \\ \f(-k,-k^2)\\ \f(-k,-k^2)\) = p + 12, p 200 200 } + p 8 + 1 3 p 6 come + 1623 + (12) 1 minus 2 1 2 1 1 34 to pe-11 comme vill of he = 13, plantes + + (+, >1 + (2, -1) =2f(krsh)f(rn,ro)Karren Starteller Startes THE PLEASURE HISTORY

$$e^{-\frac{\pi}{2}} \cdot \frac{1 + \frac{13}{4}(-x^{2}) + \frac{13}{4}(1-x^{3}) + 2c}{1 + \frac{13}{4}(-x^{2}) + 2c}$$

$$= F(\frac{2x}{1+x}).$$

$$1 - \frac{f(x_{1}-x^{3})}{f(x_{1}-x^{3})} = 5d \log \frac{f(-x_{1}^{2}-x^{3})}{f(x_{1}^{2}-x^{3})} / dx$$

$$f(x_{1}, v_{1}) = f(x_{1}, v_{2}) + u_{1} f(\frac{v_{1}}{u_{1}}, \frac{v_{2}}{u_{2}}) + v_{1} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{1}) = f(x_{1}, v_{2}) + v_{1} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{1}) = f(x_{2}, v_{2}) + v_{1} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{1}) = f(x_{2}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{1}) = f(x_{2}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(\frac{v_{2}}{u_{2}}, \frac{v_{2}}{u_{2}}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(x_{1}, v_{2}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + v_{2} f(x_{1}, v_{2}) + 2c}$$

$$f(x_{1}, v_{2}) = f(x_{1}, v_{2}) + 2$$

* + (1) A) + (8, kp) = + (0, V) + (1, 103) where h = pr Y1-1411+ (+1-4)=2 +(125 125) 1 1 1 1 - f(-t,-x) = 2 p + (8) 4 16) when k = p3 # +(A) f(A) = f(A) - x4) f(A) - A) 11. 1 1/1 + + feb-1) = 2 f(+72+) f (+2, pr) *1. イルイナチャンコニストナーランサインファイン VB. 6 fall the fine from formation of form the most m portant ace f(-2,-2), f(2,-2) and f(3, 2) flax = por and f(x, x =) = you Ex 1. f(x x) = p(+xi) 1. flx, x?) flx; +1 = 40 4 (x4) 3. 3/(23x1) = 4(Vx) + 4+Vx) 4. 2+(x/x?) = 42(vx) - 4/2(vx). 1 pa) = 1+1x+1x++2x++2x++2x++ = 等、特、特、 11. You = 1+x +x +x +x +x +x + x 11+ 61 后等。一 1 69 400 = x + 31040 + 3040 + 20

$$\phi(x) + \phi(x^{1}) = \frac{1}{(1-x^{1})(1-x^{1})(1-x^{1})(1-x^{1})(1-x^{1})}$$

$$\phi(x) - \phi(x^{1}) = \frac{1}{1+(1-t)(1-t+\frac{3}{4}t^{1})}$$
then $F(\frac{2x}{1+x}) = \frac{1}{1+(1-t)(1-t+\frac{3}{4}t^{1})}$

$$(x + \frac{x^{1}}{t} + \frac{1}{64}x^{1} + \frac{1}{12}x^{1} + \frac$$

$$V_{ij} = \frac{1}{4} \phi(x) = 2 \phi(x)$$

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$$V_{ij} = \frac{1}{4} \phi(x)$$

$$V_{ij}$$

$$\frac{y(\alpha)}{\psi(x)} = 2 \times \frac{\psi(\alpha)}{\psi(x)} = \frac{\phi'(\alpha)}{\phi(x)},$$

$$\frac{\phi'(\alpha)}{\phi(x)} - 4 \times \frac{\phi'(\alpha)}{\phi(x)} = \frac{\phi'(\alpha)}{\phi(x)},$$

$$\frac{\phi'(\alpha)}{\phi(x)} = 2 \times 3 = \sqrt{1 + (4)^{1/2}} \times + (\frac{110}{100})^{1/2} + 4 \times \frac{1}{100},$$

$$\frac{\phi'(\alpha)}{\phi(\alpha)} = 2 \times 3 = \sqrt{1 + (4)^{1/2}} \times + (\frac{110}{100})^{1/2} + 4 \times \frac{1}{100},$$

$$\frac{\phi'(\alpha)}{\phi(\alpha)} = 2 \times 3 = \sqrt{1 + (4)^{1/2}} \times + (4 \times 2) = 2 \times 1 - 2 \times 1.$$

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miting to for x we have the expansion of poly a in the that of [] to in terms Extracting the source root and expanding the result in as the ing powers of 1x we can find the expansion of Vi. 8 = (2x) = x + 5 x3 + 869 x2 + 4097 x7 to La termo. + 16777216 11 2 F. (1-e-Px) = 2- 31 + 31 x5 - 661 27 - + 267677 x7 - 840 + 5987 287 86 は、1 年の到 F性) = e-# F(()=1, F(ビー)) (* a (E p'a) = 1+(1) = 1- \frac{\phi(2)}{\phi(2)}\\ 1- \frac{\phi(2)}{\phi(2)}\\ +\left(\frac{1}{2}\right)^2\\ 1- \frac{\phi(2)}{\phi(2)}\\ $=\frac{d^{2}\sigma}{2i\phi^{4}(i^{2})}\left\{i+\left(\frac{1}{2}\right)^{2}\left[\frac{2^{2}(4-i^{2})}{2^{2}(4-i^{2})}\right]+\left(\frac{1}{2}\right)^{2}\left[\frac{2^{2}(4-i^{2})}{2^{2}(4-i^{2})}\right]^{2}+0\right\}$ xi 下傳譯(三〇F〉等計· 411. F (1- \$ F) = 7 F (1- \$ + 627) OF FIRE WELLS

$$\begin{cases} 1+2\sqrt{n}+1e^{-\lambda \pi}+2e^{-\eta \pi}+8e = \frac{\sqrt{n}}{1-\frac{\lambda}{2}}.=h \\ 1-2e^{-\pi}+2e^{-\lambda \pi}-2e^{-\eta \pi}+4e = \frac{h}{\sqrt{2}}. \end{cases}$$

$$\begin{cases} 1+2(e^{-\pi})^{2}+2(e^{-\eta \pi})^{2}+2(e^{-\eta \pi})^{2}+4e = \frac{h}{\sqrt{2}}. \end{cases}$$

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$$\begin{cases} 1+(e^{-h$$

19i.e.
$$f_{ij} = \pi$$
 $\frac{1+(b)(a+i)+(b+i)}{1+(a+i)} = \pi$ $f_{ij} = \pi$

$$\begin{array}{l} (1-e^{-\pi})(1-e^{-2\pi})(1-e^{-2\pi})(1-e^{-2\pi}) & (1-e^{-2\pi}) & (1-e$$

CHAPTERIVI 1. h = 2+ h p(2h) + h p(6d) + h p(6d) + osc porde + Filis when F(0) =0. File can be found by expanding the left - Late writing the constant instead of sevis con. If h p(h) = ah + 6h + ch + + dh + &c will to the sale be not negative, then 4 p(h) + 4 p(ix) + 4 p(sh) + 2 p(h) + xx . Flb & not a time nating Series; but if 179, 2, 2 & 2 by odd integers Flb) appear to be I out have some fineth walnes on this case F(h) is unity there as 1 6 th which is a When her Let which and one persed as a misto on in ascending courses of a when his much to a reserve the contract the and the apparent value of F(4) is so small The apparent value of + + 7+ se + 7+0 se = T = ace sales can T (1+ 20 = 4 + 40 - 4 + 40 Ex show that a { por + por + 400 + 400 + 400 + 400) + 200} = \ \ \phi ordx + F(e-\) where F(e) = 0. + 2 2 + 2 2 + 2 2 + 6 2 + 6 2 2 + 6 2 - + The British Cas Think - de

$$\frac{|m|}{e^{2}-1} + \frac{2^{m}(2^{m}+1^{m})}{e^{2m}-1} + \frac{3^{m}(3^{m}+1^{m})}{e^{3m}-1} + \frac{2^{m}(3^{m}+1^{m})}{e^{3m}-1} + \frac{2^{m}(3^{m}+1^{m}$$

$$\frac{1}{\sqrt{1+x^2}} + \frac{1}{\sqrt{1+x^2}} + \frac{3}{\sqrt{1+x^2}} + \frac{3}$$

$$\begin{aligned} &\psi(r) - x\psi(r) = \sqrt{\frac{4(-x^2)}{4(-x^2)}} \sqrt{\frac{3}{4}} \left(\frac{3}{x^3} \right) \\ &\left\{ 3 \phi(-x^2) - \phi(-x) \right\}^3 = 8 \frac{\psi^3(r)}{\psi(r^2)} \phi(-x^3) \\ &\frac{3617 + 16320}{1 + 240} \left(\frac{15x}{1-x} + \frac{2^{15}x}{1-x} + \frac{3^{15}x^3}{1-x^3} + 2xx \right) \\ &\frac{1 + 240}{1 + 240} \left(\frac{15x}{1-x} + \frac{2^{15}x}{1-x} + 2xx \right)^3 \\ &+ 2000 \left\{ 1 - 3024 \left(\frac{15x}{1-x} + \frac{2^{17}x^2}{1-x} + 2xx \right) \right\} \\ &+ 28867 - 287288 \left(\frac{15x}{1-x} + \frac{2^{17}x^2}{1-x} + 2xx \right) \\ &- 38367 \left\{ 1 + 240 \left(\frac{15x}{1-x} + \frac{2^{17}x^2}{1-x} + \frac{3^{17}x^2}{1-x} + \frac{3}{1-x} \right) \right\} \\ &+ 5500 \left\{ 1 - 504 \left(\frac{15x}{1-x} + \frac{2^{17}x^2}{1-x} + \frac{3}{1-x} + \frac{3}{1-x} \right) \right\} \\ &+ 4 \sqrt{60} \left(\frac{17x}{1-x} + \frac{2^{17}x^2}{1-x} + \frac{3}{1-x} + \frac{3}{1-x} + \frac{3}{1-x} \right) \\ &= 53361 \left\{ 1 + 240 \left(\frac{15x}{1-x} + \frac{2^{17}x^2}{1-x} + \frac{3}{1-x} + \frac{$$

Cre. Jo # = 4 = h, P. H. S becomes 1/10 (= for - Co-log 2) + Colm+n) + 13m 13n cos Tim cos Tim (1+11 cos0+2)(1+2 3 cos0 + 26)(1+225 cos0 + 26) &c x4-22(1-149(1-16)(1-18) ac =1+12cos0 + 224cos20 + 229cos30 +126cos40 + Bac in. 1. (-n3)(1-n7) (1-n15)(1-n21) &c = 1+ n - (0+ 2n9+ n16)+ (+2n36+ 249) - &c 1+12+12+120+120+125+121 + &c 1+10-(146+219+16)+(150+2236+1600)-60 14nw +123 +1264 2 1 11 +121 +121 +121 +134 1-13-115+124 148- 8c 1+29+217+254+80 - 412 + 2130 - 21 1 4 0,0 1+ n= +n++ N++n2 + 30 2. 8-11年度第十十十111十九3人前十九日11十九日十九日十九日十九日 First & 11 +2 4 1) and I (i) in ascending place 7. If d 3 = 7 there 4 de - \$ (1-e-2a)(1-e-4)(1-e-6a) of - 3 / (1-p-08) &c 9/3=7/4 光一之地以十万城 (4d) 1 310 W

 $1 + 480 \left(\frac{17}{1-x} + \frac{27x^{2}}{1-x^{2}} + \frac{37x^{3}}{1-x^{3}} + 4x^{2} \right)$ $= \left\{ 1 + 240 \left(\frac{17x}{1-x} + \frac{2^{3}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + 4x^{2} \right) \right\}.$ × {1 - 504 (1 x + 2 x x + 1 x x + x x)} = 1 - 264 (= + 29 x + 27 x + 4 - 21 + 4 - 1). (A) $\begin{cases} 1 + 240 \left(\frac{15}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{2}}{1-x^$ 691+240.273 (11/x + 21/x + 21/x 3 + 5) = 441 {1 + 240 (= + = + = + = + + = + + = + + =)} 2 + 250 11 - 504 (152 + 252 + 352 + 20) }. there it is possed to to fraid Sen in tisseeins conthe con B. Sin-4 & Sin- 6 we and extentioning

1 + 2d + 4d + 6d + 8d + bec 27 + 47 + 67 + 67 + 67 - 4 6 7 - 4 1. If dB = TT et aft + e-gosad + e-tatos ind + etcasans + co = VB { + + e 15 cost no + e - 43 cost 2 no + e 915 m/s = 1 + e U. If & B. = 71 ent several (1-2e-2d cosend + e-fat) and a fat Bush me (1-30-18 -165, 1-5+04) 1 10 + Tolok D \$ 1 0 3 = 7 (42 + Goszná + Cosaná 1/2+ 1/elli) + eletali) Cosynde in Cost 6 md 3(2×15) - 1 = + contains + contage = + + + + 69 14 200 1= State or 18 96=9 A South took & Frank & Fr

$$\frac{1}{(1-x)^{2}} + \frac{2^{2}x^{2}}{(1-x)^{2}} + \frac{3^{2}x^{3}}{(1-x)^{2}} + \frac{3^{2}x^{3}}{(1-x)^{2}} + ke$$

$$= \frac{1}{289} \left\{ 1 + 240 \left(\frac{1^{2}x}{1-x} + \frac{2^{1}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1698} \left\{ 1 - 24 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1698} \left\{ 1 - 24 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{123} \left\{ 1 + 240 \left(\frac{x}{1-x} + \frac{2^{1}x^{2}}{1-x^{2}} + \frac{2^{1}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{123} \left\{ 1 + 240 \left(\frac{x}{1-x} + \frac{2^{1}x^{2}}{1-x^{2}} + \frac{2^{1}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{120} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{2^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 + 480 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{2^{2}x^{2}}{1-x^{2}} + \frac{3^{2}x^{3}}{1-x^{3}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{x}{1-x^{2}} + \frac{x}{1-x^{2}} + \frac{x}{1-x^{2}} + ke \right) \right\}$$

$$= \frac{1}{1008} \left\{ 1 - 304 \left(\frac{x}{1-x} + \frac{x}$$

+ Bearnys + Bsin4 11/8 the coth nd - B cot ms 14. 37 9 3 = To and n is aportion intiges 71 dms Bin cos Ton + 12nd + 21nd + 32nd + 86} 26/8) Bur Collins + 12/2 + 22m1 + 32m1 + 6,0 } CRI - + 212 + 300 + 45 + 188 502 1. 1 + 29 + 87 + 4 + 20 = 284 3. 200 + 210 + 310 - + 15. If &B = The and nany integer (4d) - 1 & Sin-1 + jen-1(end) + zen-(end) + 3 - (-1/2) + String + participal to product): $=\frac{B_{2m^{\bullet}}\{(-A)^{m}+\beta^{m}\}}{|1m|}+\pi^{2}\cdot\frac{B_{2}}{|1|}\cdot\frac{B_{2m-1}}{|1m-2|}(-1)^{m-2}+$ - 7 1 Bened (1) + 1 mil + 36 The court to Wind - I Bu Bo (-1) or T 27 Buy Buy (-1) (-1) attronum and ma

$$\iint_{\mathbb{R}} P_{n} = \frac{|3n|}{2\pi} \left(\sum_{n=1}^{\infty} |\cos \frac{\pi n}{L} + \frac{|n|}{1+\nu} - \frac{2^{n}/2}{1+\nu} + \frac{3^{n}/2}{1+\nu} \right) d\nu$$

$$\iint_{\mathbb{R}} P_{n} = \frac{|3n|}{2\pi} \left(\sum_{n=1}^{\infty} |\cos \frac{\pi n}{L} + \frac{|n|}{1+\nu} - \frac{2^{n}/2}{1+\nu} + \frac{3^{n}/2}{1+\nu} \right) d\nu$$

$$\iint_{\mathbb{R}} P_{n} = \frac{|3n|}{2\pi} \left(\sum_{n=1}^{\infty} |\cos \frac{\pi n}{L} + \frac{|n|}{1+\nu} - \frac{2^{n}/2}{1+\nu} + \frac{2^{n}/2}{1+\nu} + \frac{3^{n}/2}{1+\nu} \right) d\nu$$

$$\iint_{\mathbb{R}} P_{n} = \frac{|3n|}{2\pi} \left(\sum_{n=1}^{\infty} |\cos \frac{\pi n}{L} + \frac{|n|}{1+\nu} + \frac{2^{n}/2}{1+\nu} +$$

 $Cull = \frac{1}{2^3(e^{4\pi}i)} + \frac{1}{2^3(e^{6\pi}i)} + 3e = \frac{7\pi^2}{360} = \frac{1}{360}$ $\frac{1}{2\pi}\frac{1}{1}\frac{1}{(e^{42})} + \frac{1}{2\pi}\frac{1}{(e^{42})} + \frac{1}{3\pi}\frac{1}{(e^{42})} + \frac{1}{3\pi}\frac{1}{(e^{42})} + \frac{1}{3\pi}\frac{1}{(e^{42})} + \frac{1}{3\pi}\frac{1}{(e^{42})}$ 16 of a B = T, for = Se + \$6 x) dx and for for () = for) for , the for va } = +01 + = + + (ord) + = -44 = + = - 24 ford) + lace = 160 VB (+ 40) + = 1 (apr) + = 40 4(2401) + 20 4(24) (24) 17 1+ 260 nx + 2 602 nx + 2 6-3 nx + de = Tech 至Godn = Frinker At a dea the week of and 2 th has a land 18. \$60) + \$\frac{\psi(xc) + \psi(xc)}{1 + x^2} + \frac{\psi(xc) + \psi(xc)}{1 + 4x^2} + \frac{\psi(xc)}{1 + 4x^2} = 是如此至年如此十年至190十一年的 Hill the this certain limit of a very cureful in 1940 the thoursey 1+ 30000 0000 + 20000 0000 + 4000 1 + 4 = Total Total Cost n - Kak Side to is true only when morn or money was colored o and Fi we make the second of for + your fraction free thereon is there were and a

$$\frac{1+4(\frac{x}{1-x}-\frac{x^{2}}{1-x^{3}}+\frac{x^{4}}{1-x^{3}}-\frac{x^{7}}{1-x^{7}}+4x^{7})}{1+4\cos n(\frac{x\cos n}{1-x}-\frac{x^{3}\cos n}{1-x^{3}}+\frac{x^{3}\cos n}{1-x^{6}}-4x^{6})}$$

$$=4\{\frac{y\sin^{2}n}{1(1+x)}-\frac{x^{4}\sin^{2}n}{2(1+x^{6})}+\frac{x^{2}\sin^{2}n}{3(1+x^{2})}-4x^{6}\}$$

$$\frac{1}{4}\log\frac{\sin n-x\sin n+x^{2}\sin n-x^{6}\sin n+x^{6}}{\sin n(1-2x+5x^{3}-7x^{6}+9x^{6}-4x^{6})}$$

$$=4\{\frac{x\sin^{2}n}{1(1-x)}+\frac{x^{4}\sin^{2}n}{2(1-x^{3})}+\frac{x^{4}\sin^{2}n}{3(1-x^{3})}+4x^{6}\}$$

$$\frac{1}{4}\log\frac{\sin n-x\sin n+x^{5}\sin n-x^{6}\sin n+x^{6}}{\sin n(1-2x+4x^{5}-5x^{8}+7x^{16}-x^{6})}$$

$$=\frac{x}{1+x}\sin^{2}n+\frac{x^{4}\sin^{2}n}{2(1+x^{3})}+\frac{x^{3}\sin^{2}n}{3(1+x^{3})}+3x^{6}$$

$$+\frac{x^{4}}{1-x^{6}}\sin^{2}n+\frac{x^{2}\sin^{2}n}{2(1-x^{6})}+\frac{x^{5}\sin^{2}n}{3(1-x^{3})}+3x^{6}$$

$$+\frac{x^{6}\sin^{2}n}{1+x}+\frac{x^{2}\sin^{2}n}{2(1-x^{6})}+\frac{x^{2}\sin^{2}n}{3(1-x^{6})}+3x^{6}$$

$$+\frac{x^{6}\sin^{2}n}{1+x}+\frac{x^{2}\sin^{2}n}{2(1-x^{6})}+\frac{x^{3}\sin^{3}n}{3(1+x^{6})}+3x^{6}$$

$$+\frac{x^{6}\sin^{2}n}{1+x}+\frac{x^{2}\sin^{2}n}{2(1-x^{6})}+\frac{x^{3}\sin^{3}n}{3(1+x^{6})}+3x^{6}$$

$$+\frac{x^{6}\sin^{2}n}{1+x}+\frac{x^{2}\sin^{2}n}{2(1-x^{6})}+\frac{x^{3}\sin^{3}n}{3(1+x^{6})}+3x^{6}$$

$$+\frac{x^{6}\sin^{2}n}{1+x}+\frac{x^{6}\sin^{2}n}{2(1-x^{6})}+\frac{x^{3}\sin^{3}n}{3(1+x^{6})}+3x^{6}$$

19 St a Both Them 1 7 port 2 p(0) + 2 p(0) } + (f(a)+f(-nd) + f(2nd) + f(2nd)
2(e11-1) 1(e6x1) 主了中(2011)十全中(2211)十分中(2211)十名(= { 3 400 + 3 10 400 + 20 400 } (physist 4(-130) + 4(mst) + 4(2mst) 十十十分のなり十七十年の(アルスピ)ナラ中にからい)+8より of a B = IT many even integer and if on = Bon (ac) to + B B (42) 4(0) + 15 + 15 - Be Bone (4/5) (de) + 15" +xc = last to lang-(apr) 2-1 By 1 Bat 1/2011 (400) according as me is odd or even, the \$\frac{\psi(nd) + \psi(\text{cond})}{(20)^{m-1}(\text{cond})} + \frac{\psi(\text{cond}) + \psi(\text{cond}) + \psi(\text{cond})}{(20)^{m-1}(\text{cond})} + \frac{\psi(\text{cond}) + \psi(\text{cond})}{(20)^{m-1}(\text{cond})} + \frac{\psi(\text{cond})}{(20)^{m-1}(\text{cond})} + \frac{\psi(\text{cond} Foll (202) m-1 (2202) + + (4 m/26) + + (4 m/26) + (4 m/ + BE / Phonon + \$ (200) + \$ (400) + \$ (00) + \$ (200) + 如(1) 中(1) + 世中的中(1) + 11 11 + 11 11 This theorem to whomas there photocology

$$\frac{\phi(\alpha)}{\phi(\alpha)} - \frac{\psi(\alpha)}{\psi(\alpha)} = \frac{1 - \phi'(x)}{8x} + \frac{\phi(\alpha)}{\phi(\alpha)} + \frac{\phi(\alpha)}{\phi$$

1 (x-n+3 + x-n+5- &c) - (x+n+1 - x+n+3 + x+n+5 - &c) = 第一字表十十二年 经十年 2 do1 - 1 du1 + in da1 - de = 中(七)-女中(1七) + になゆしまかしなこ 3. \(\psi^2 \ar a \) = \(\frac{1}{4} + \frac{1}{4 - 1} - \frac{1}{1 - \text{x}} \) + \(\frac{x^3}{-x} - \frac{x^7}{1 - \text{x}} + \text{dive} \) 4 8 dia = = + x + 2x + 2x + 2x3 + 4x5 + oxc 1. Stas Then W } + + ex, ex, + ex, - ac} 2/01/2 + esi - essi + essi, -acf 6. of Joses os nxdn = Y(u) there 1 ya, cosnadx = 7 46). 7 8/ percos nxdx = you, then (i) Soyardx = # for, (i) Syardx = # Sparda eff for 60) cosnada = 4(0), then il for par con coste dx = yen Oil for Walconx cos de = E par.

$$\frac{1}{1} \left(\frac{1}{2} x_{1} - \frac{1}{2} x_{1} \right) = \frac{4(-x^{2})}{4(6)}$$

$$\frac{1}{1} \left(\frac{1}{2} x_{1} - \frac{1}{2} x_{1} \right) = \frac{4(-x^{2})}{4(6)}$$

$$\frac{1}{1} \left(\frac{1}{2} x_{1} - \frac{1}{2} x_{2} \right) + \frac{6x^{2}}{1+x^{4}} + \frac{5x^{4}}{1+x^{4}} + \frac{3x^{6}}{1+x^{4}} + \frac{3x^{6}}{1+x^{4}} + \frac{3x^{6}}{1+x^{4}} + \frac{3x^{6}}{1+x^{4}} + \frac{3x^{6}}{1+x^{4}} + \frac{3x^{6}}{1+x^{6}} + \frac{3x^{6}}{1$$

1-5x+7x=11x5+13x7-&c=\$7776x,-x4=1

f (x, -x-) f(-x,-x1) = \$(-x) 4(0).

9. $\phi(x) \phi(x) = 1 + \frac{2x}{1-x} + \frac{1x^3}{1-x^3} - \frac{2x^5}{1-x^3} - \frac{2x^7}{1-x^7} + 6x^6$ 10. $\phi(x) \phi(x^3) = 1 + \frac{1x}{1-x} - \frac{1x^2}{1+x^2} + \frac{1x^5}{1+x^5} - \frac{1x^5}{1-x^7} + \frac{1x^7}{1-x^7}$ When $\frac{1}{1-x^7} = \frac{1}{1-x^7} + \frac{1}{1-x^7} + \frac{1}{1-x^7} = \frac{1}{1-x^7$ shire to - see 11 ga 4000 = 1+ 2x - 1x1 - 1x2 + 1x5 + 1x6 - 2x7 + 1x9 - 1x10 AK 11. 1-3x+123-726+9x10-&c = (1-x)(1-x)(1-x)(1-x1) be } = pt x) \ \(\psi \). 18. If a s = 4, then 14 de-4- 3de -9x + sae- wat we } = NA {Be-15 - 3Be-95 + 5Be-25B bec} 4. If) parcosinxdx = you then a } = \$ \$ (0) + \$ (a) cosnd + \$ (2a) cos4 nd + \$ (2a) cos6 nd + caf = YM + 418-m+ 418+m+ 4(28-m+ 468+m)+ xc with $\alpha\beta = \pi$ & m lying between $0 & \beta$.

B. $\int_{0}^{\infty} \frac{e^{ax}}{e^{\pi x}} \frac{e^{-ax}}{e^{-\pi x}} \cos mx dx = \frac{\sin a}{e^{m} + 2\cos a + e^{-m}}$ $\int_{0}^{\infty} \frac{e^{ax} + e^{-ax}}{e^{\pi x}} \lim_{n \to \infty} mx dx = \frac{1}{2} \frac{e^{m} + 2\cos a + e^{-m}}{e^{m} + 2\cos a + e^{-m}}$ 8 ln mx dx = \(\frac{1}{cm}, + \frac{1}{c} - \frac{1}{m} \)

$$y = \pi \cdot \frac{1 + (\pm)(1 - x) + (\frac{1 - x}{1 - x})^{\frac{1}{2}} (1 - x)^{\frac{1}{2}}}{1 + (\pm)^{\frac{1}{2}} x^{\frac{1}{2}} + (\frac{1 - x}{1 - x})^{\frac{1}{2}} x^{\frac{1}{2}} + (\frac{1 -$$

$$\frac{1}{2} \frac{2}{4} \frac{1}{4} \left(\frac{1}{2} + \frac{1}{2} \frac{1}{4} \right) + \frac{1}{2} \frac{1}{4} \frac{1}{4} \frac{1}{4} + \frac{1}{2} \frac{1}{4} \frac{1}{4}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 4\pi\right\}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 4\pi\right\}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 4\pi\right\}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 4\pi\right\} \left(\frac{3}{4}\right)^{2} \times + 4\pi\right\}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 4\pi\right\} \left(\frac{3}{4}\right)^{2} \times + 4\pi\right\}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 2\pi\right\} \left\{\frac{3}{4}\right\} \times + 4\pi\right\}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 2\pi\right\} \left\{\frac{3}{4}\right\} \times + 4\pi\right\}$$

$$= \left\{1 + \left(\frac{1}{4}\right)^{2} \times + \left(\frac{1}{4}\right)^{2} \times + 2\pi\right\} \left\{\frac{3}{4}\right\} \times + 11\left(\frac{3}{4}\right)^{2} + 11\left(\frac{3}{4}\right)^{2}$$

$$\frac{1+4(\frac{1}{e^{4}-1} - \frac{1}{e^{3}+1} + \frac{1}{e^{5}+1} - \frac{1}{e^{5}})}{1-4(\frac{1}{e^{4}-1} - \frac{2}{e^{2}+1} + \frac{3}{e^{5}+1} - 4e)} = \frac{1+4(\frac{1}{e^{4}-1} - \frac{2}{e^{2}+1} + \frac{3}{e^{5}+1} - 4e)}{1-4(\frac{1}{e^{4}-1} - \frac{3}{e^{2}+1} + \frac{5}{e^{5}+1} - 4e)} = \frac{1+4(\frac{1}{e^{4}-1} - \frac{3}{e^{2}+1} + \frac{5}{e^{5}+1} - 4e)}{1-4(\frac{1}{e^{4}-1} - \frac{3}{e^{2}+1} + \frac{5}{e^{5}+1} - 4e)} = \frac{1+4(\frac{1}{e^{4}-1} - \frac{3}{e^{2}+1} + \frac{5}{e^{5}+1} - 4e)}{1-4(\frac{1}{e^{4}-1} - \frac{3}{e^{2}+1} + 4e)} = \frac{1+2}{e^{2}+1} + \frac{1}{e^{2}+1} + \frac{1}{e^{$$

$$\begin{vmatrix}
1 + \frac{1}{2} \left(\frac{1}{e^{\eta} + 1} + \frac{1}{e^{2\eta} + 1} + \frac{1}{e^{2\eta} + 1} + \frac{1}{4} \right) \\
1 + \frac{1}{2} \left(\frac{1}{e^{\eta} + 1} + \frac{1}{e^{2\eta} + 1} + \frac{1}{e^{2\eta} + 1} + \frac{1}{4} \right) \\
1 + \frac{1}{2} \left(\frac{1}{e^{\eta} + 1} + \frac{23}{e^{2\eta} + 1} + \frac{1}{e^{2\eta} + 1} + \frac{1}{4} \right) \\
1 + \frac{1}{2} \left(\frac{1}{e^{\eta} + 1} + \frac{1}{e^{2\eta} + 1} + \frac{1}{e^$$

$$\frac{\sqrt{\chi}}{\sqrt{n}} \left\{ \frac{1}{2} \left(\frac{1}{12n} - \frac{1}{32n} + \frac{1}{32n} - 3\alpha x \right) + \frac{1}{12n} (e^{\frac{1}{2}x}) - \frac{1}{32n} (e^{\frac{1}{2}x}) \right. \\
+ \frac{1}{32n} \left\{ e^{-1} \left(\frac{1}{2} - \frac{1}{32n} + \frac{1}{32n} (e^{\frac{1}{2}x}) + \frac{$$

在+et = 世十年世十年21年 \$ \sum_4 \sum_{x(1-x)}. 13 + 5-1 + 5-1 + 5-1 + 6-12 + 6-12 - 4 = 6-12 - 4 = 24 /2(=x) (1-2x). = = = (1-16x + 16x4). 17 - 37 - 57 - 57 - 24 + 642 + 647 + $= \frac{7}{4} \int_{x} (-x) (1-2x) (1-136x+136x).$ 17 - 39 + 59. " extent extent + ett. 12 ? 210 /2(1-x) 31-1232 × (1-x)+7936× (1-x) Lettin = 2m(n) Bu

only and them of the set to the them " a portire or 32n+1 32n+1 64+64 3274/ 51741 \$ (-13) (e4+e4 eletete estable If d /3 = TI then 中(3a)-女(3a)-女(3a)-女(ex+ex e 12 + e 12 + + } + Bi (+ e 4 + e 4 I/dB=TT then

of { Sinnd -Sin 311 d + Ar} = B SinhmB 8inh 3n/3.

$$\int_{C} \frac{dx}{dx} = \frac{1}{3(e^{4} + e^{\frac{3}{4}})} + \frac{1}{3(e^{4$$

$$\frac{1}{e^{1}-e^{-1}} + \frac{3}{e^{2}Le^{2}l} + \frac{3}{e^$$

of the Them were the second 17 + 1-1et en) - + 2-(era e-ra) - + 3-(era e rapido) + There my toler enjoy to 37ein eingt - 201 (1-6/1-e-1x) + 2-log(1-e-4x)+3-log(1-e-6x)+0-1 -2/5 {1-4, (1-e-1) +2-6, (1-e-4) +3-6, (1-e-6)+3-6 of of B = 11 and in any integer, there d 1-n { 12n-1(et+e=t) = 3in-1(e=t+e=t) + &n/ +(-B)1-m} 12n-1(e4+e4) = 32n-1(e34+e46) + 86/= $=\frac{\pi}{2^{2n+1}}\left[\frac{E_1E_{2n-1}}{2^{2n+2}}\left\{(-\alpha)^{n-1}+\beta^{n-1}\right\}-\frac{E_3E_{2n-3}}{2^{2n+4}}\right]$ { (d) n-3 + 13 n-3} + Es-Ezn-5- (d) + 10 = 3 - &c the last term being (-1) & (En | se (-1) & En = En+1 (d-B) according as not oold or ev

$$\frac{1}{1^{2}(e^{\frac{1}{2}}+e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}+e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}+e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}+e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}+e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}-e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}-e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}-e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}-e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}-e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{1}{2}}+e^{\frac{1}{2}})} + \frac{1}{3^{2}(e^{\frac{$$

$$\frac{1(e^{\frac{1}{4}}e^{\frac{1}{4}})}{3(e^{\frac{1}{4}}e^{\frac{1}{4}})} + \frac{1}{3(e^{\frac{1}{4}}e^{-\frac{1}{4}})} + \frac{1}{3(e^{\frac{1}4}e^{-\frac{1}4})} + \frac{1}{3(e^{\frac{1}4}e^{-\frac{1}4}e^{-\frac{1}4})} + \frac{1}{3(e^{\frac{1}4}e^{-\frac{1}4}e^{-\frac{1}4}e^{-\frac{1}4}})} + \frac{1}{3(e^{\frac{1}4}e^{-\frac{1}4}e^{-\frac{1}4}e^{-\frac{1}4})} + \frac{1}{3(e^{\frac{1}4}e^{-$$

$$\frac{1}{1+x} + \frac{1}{1+x} + \frac{1$$

Sin
$$3\theta = mh \sin \theta = \cos^{2}\theta = n^{4} \cos \theta$$

and $m - n = 1$.

$$\frac{m - \sin^{2}\theta}{m - \sin^{2}\theta} = \frac{m + m}{3}.$$

$$= \frac{1 + (t)^{4} \sin^{2}\theta}{1 + (t)^{2} \sin^{2}\theta} + \frac{1}{(t + t)^{2}} \sin^{4}\theta + \frac{1}$$

$$F_{3} = (2-18) \sqrt{12}_{3} = e^{-3\pi}$$

$$\phi(e^{-3\pi}) = \frac{\phi(e^{-\pi})}{\sqrt{6\sqrt{3}-9}}$$

$$1 + \frac{\alpha}{11} \cdot \frac{2\pi}{2m} \cdot x \cdot (\frac{2+x}{1+2x})^{3} + xc$$

$$-(1+2x)^{2n} \left(1 + \frac{1}{2} \cdot \frac{x^{2}}{1+2x} + xc\right) \cdot \int_{1-x^{2}} \frac{x^{2}}{1+2x} + xc$$

$$(x \frac{\sqrt{3}(2^{2})}{\sqrt{2}}) = \frac{x}{1-x^{2}} - \frac{x^{2}}{1-x^{2}} + \frac{x^{2}}{1-x^{2}} - \frac{x^{2}}{1-x^{2}} + \frac{x^{2}}{1-x^{2}} - \frac{x^{2}}{1-x^{2}} + \frac{x^{2}}{1-x^{2}} - \frac{x^{2}}{1+x^{2}} + \frac{x^{2}}{1+x^{2}} +$$

$$\frac{1}{3} + e^{\pi x} \cos(\pi \sqrt{1-x^2}) + e^{-4\pi x} \cos(4\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + x^2 \sin(\pi \sqrt{1-x^2}) + e^{-4\pi x} \sin(4\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + \sqrt{3} \cdot \sin(\pi \sqrt{1-x^2}) + e^{-4\pi x} \sin(4\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + \sqrt{3} \cdot \sin(\pi \sqrt{1-x^2}) + 2e^{-4\pi x} \sin(4\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + \sqrt{3} \cdot \sin(\pi \sqrt{1-x^2}) + 2e^{-4\pi x} \sin(4\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + x^2 \sin(\pi \sqrt{1-x^2}) + 2e^{-4\pi x} \sin(4\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + x^2 \sin(\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + x^2 \sin(4\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + x^2 \sin(\pi \sqrt{1-x^2}) + 6x$$

$$\frac{1}{6} + x^2$$

$$\int_{A}^{A} \int_{A}^{A} \frac{1+(\frac{1}{4})^{2}(1-\alpha)}{1+(\frac{1}{4})^{2}(1-\alpha)} + \frac{(1-\alpha)^{2}}{(1-\alpha)^{2}} +$$

= 8 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 2 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 2 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 3 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 4 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 6 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} = 8 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 2 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 2 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} + 6 \frac{\psi^{(\mu)}}{\psi^{(\mu)}} = 2 \frac{\psi^{(\mu)}}{\psi^{(\ {\\ \frac{1}{4} \\ \rightarrow\ri (+ 1) = φ(x²) · e + - t-and + 6 × 1 \$ (24) \$3004) Sin {3 ton! \$600 - stan \$600} · 2 + (2) + 5 (4) Sim (5 - Lan 1 + 67) - Lan 4 + 10) 10 614) for 17 tax \$ (-17) + (a) 14) = (16-12-1) = e-71/6

$$\frac{1+13}{164-1} = \frac{1}{164}$$

$$\frac{1}{164-1} = \frac{1}{164}$$

$$\frac{1}{(\sqrt{5}+1)^{4}} = e^{-7\pi\sqrt{15}}$$

$$\frac{1}{(\sqrt{5}+1)^{4}} = e^{-7\pi\sqrt{15}}$$

$$\frac{1}{(\sqrt{5}+1)^{4}} = e^{-7\pi\sqrt{15}}$$

$$\frac{1}{(\sqrt{5}-1)^{4}} = e^{-7\pi\sqrt{15}}$$

$$\frac{1}{(\sqrt{5$$

$$\frac{S_{10}}{10}, \frac{S_{10}}{10} + \frac{S_{10}}{10}$$

1 1 3 1 -2 8/ A'(1-A) 2 1 -2 8/ A'(1-A) 2 1 - 1 1 to Casa 157 146 E HEDDY sicold for fore XI JUB + 30-4511-10) + 2 3/2 /7 4/3 (1-45/1-13) = 11 XXIII 8/1/3 + 5/6-1/11-10) + 3/4 /9/10-1/11-10) =1 V. Vap + 10-47(1-15) + 2 34 VALLE 27(1-15) =1 四. 19+1日3-101日 = (1+10101) 11- 9年 + 8年2 - 8年2 = 11+ (1) 14 TIT 8/3 + 5/1-B - 5/18(1-B) - 2 13/18(1-B) = /3 THE 13+ 1-3- 1 Show -8 7 Start - 1 + 16 12 VI. WIB (VI+VA VI+VA + VI-VA VI-VA)

TIT 8/2/5 + 5(1-4)(1-A)5- + 8/ A-(1-2)=1 I 8/d/33 + 8/0-4)(1-10)3 + 3/2. 21/105 =1 XXXE 34/013 8/1+Va)(1+VB) /1+ 5/03 + /0-Va)(1-VB) + 30-Va)(1-VB) /1+VBB +VO+VA)(1+VB) + 340-47(1-15) Le Mc Me } = 18 F (= 3 /5/13-18) = e-71/13 changing Bt 4Brad to 1-13 we get a equation (1-13) and 1+13 and 1+13 and 1+13 and 1+13 and 1+13 is free e- 1/20 1+13 and 1+13 an TII Ja(1-13) + JA(1-0) = 2 /2/3 (1-0)(1-1) V Ja(1-B) + JB(1-A) = 3/4 Ja/8(1-a) = 3) let d = sint (u+v) & Bisint() III Singue = 2 Sind & I Sind a = Sin 11 + com II - Siriqu = 45in 2 JC+37+35

$$F = \frac{1 - \sqrt{1 - (53 \pm 12\sqrt{71})(8 - 3\sqrt{7})^2}}{2} = e^{-77/2}$$

$$F = \frac{1 - \sqrt{1 - (\sqrt{5 - 2})^8(8 - \sqrt{5})^9}(\sqrt{1 + \sqrt{76} \pm \frac{4}{\sqrt{56}}})^{24}}{2} = e^{-157/2}$$

$$F = \frac{1 - \sqrt{1 - (\sqrt{5 - 2})^8(8 - \sqrt{5})^9}(\sqrt{1 + \sqrt{76} \pm \frac{4}{\sqrt{56}}})^{24}}{2} = e^{-157/2}$$

$$F = \frac{1 - \sqrt{1 - (\sqrt{5 - 2})^8(8 - \sqrt{5})^9}(\sqrt{1 + \sqrt{76}})^{24}}{2} = e^{-157/2}$$

$$F = \frac{1 - \sqrt{1 - (\sqrt{5 - 2})^8(8 - \sqrt{5})^9}(\sqrt{1 + \sqrt{5}})^{24}}{2} = e^{-157/2}$$

$$\frac{3}{37} = \frac{3}{37} \frac{37}{37} \frac{37}{47} + 36 = \frac{3}{1 + (\frac{1}{1})^7} \frac{3}{37} \frac{37}{37} \frac{37}{37} + 37}{37} = \frac{3}{1 + (\frac{1}{1})^7} \frac{3}{37} \frac{37}{37} \frac{37}{37} + 37}{37} = \frac{3}{1 + (\frac{1}{1})^7} \frac{3}{37} \frac{37}{37} \frac{37}{37}$$

$$\psi(x) - 3x \psi(x^{9}) = \frac{\phi(-x)}{(1-x^{3})(1-x^{9})(1-x^{19})^{\frac{1}{2}}} e^{-\frac{1}{2}} e^{-\frac{1}{2$$

$$\frac{\sqrt{(x)} + 2\sqrt{(2x)}}{\sqrt{(x)}} = \frac{\sqrt{(x)}}{\sqrt{(x)}} \frac{\sqrt{(x)}}{\sqrt{(x)}}$$

$$\frac{\sqrt{(x)} + 5x\sqrt{(2x)}}{\sqrt{(x)}} = \frac{\sqrt{(x)}}{\sqrt{(x)}} \frac{\sqrt{(x)}}{\sqrt{(x)}}$$

$$\frac{\sqrt{(x)} + 5x\sqrt{(2x)}}{\sqrt{(x)}} = \frac{\sqrt{(x)}}{\sqrt{(x)}} \frac{\sqrt{(x)}}{\sqrt{(x)}}$$

$$\frac{\sqrt{(x)} + 5x\sqrt{(x)}}{\sqrt{(x)}} = \frac{\sqrt{(x)}}{\sqrt{(x)}}$$

$$\frac{\sqrt{(x)} + 5x\sqrt{(x)}}{\sqrt{(x)}} = \frac{\sqrt{(x)}}{\sqrt{(x)}}$$

$$\frac{\sqrt{(x)} + \sqrt{(x)}}{\sqrt{(x)}} = \frac{\sqrt{(x)}}{\sqrt{(x)}}$$

$$\frac{\sqrt{(x)} + \sqrt{(x)}}{\sqrt{(x)}}$$

$$\frac{\sqrt{($$

$$F = J_{1} - \frac{(\sqrt{1+\sqrt{1+1}} + \sqrt{1-\sqrt{1+1}})^{2/4}}{2^{1/4}} = e^{-\pi \sqrt{3}}$$

$$= e^{-\pi \sqrt{3}}$$

$$=$$

V1- 4/3(+ 1)1-10-= V-1- 5/16 d/8 (1-4)(1-10) II 90/85 + 50-41(-12)5-I 3/183 + 5(-4)(1-13)3 1+(2)-12+3-1 + 8/ B3(1-B)3 = VIII. 8/9-12/2 - 8/27 - 1+(+) d+ th 11- JUB (HA)(1-12) $\frac{\phi^{*}(e^{-7}\pi)}{\phi^{*}(e^{-7})} = \frac{\left(\sqrt{13}+\sqrt{7}+\sqrt{7}+3\sqrt{7}\right)}{\sqrt[8]{7}} \sqrt[8]{8}$ \$(2) \$(25) = \$(25) \$(250) + 2x-4(0) 4(0)5). 1 d, and B, sitt & 15th & them 8/08 + 8/0-01(1-5) = \(\frac{1+(2)^2 B+44}{1+(2)^2 B+44} 1+14)7/13 ナナモガト 1+1631 8/BY + 8(1-A)(1-Y) = / 1+14/4+4 1+167+2 1-11(4-1) - 8/13 - 8/1-10-1/8 - 8/1-10-1/8 3/27 + 9(1-12)(1-17) = 3/4. 24/ 25 (1-2)(1-0) -1. 3/25 + 7(1-2)(1-8) = -3/2. 24/0+82(1-8)-(1-8)-1-12 +1. TI 8/4-07-8/47 .

& Isto, 5th B, 7th Y & 35-14S \$\langle + \(\((1-4)(1-6) + 2\forall 2 \(\sigma \delta \((1-4)(1-6) \) + 3/37 + 3/1-13/1-7) + 2 3/2 3/188(1-13)(1-1) = 1 + {1+23/2 2/08/8(1-0)(1-1)(1-1)(1-8)} P= 8/4 + 8/1-9 + 8/18(1-18) 9 = 8 11-10 { 9 8 + 8 12 +1} R = 3/2(1-A) 17 /P=4R = K. 49. PARS - MRH4PRS+13RS y m + 2(m-n) 3/2 3/ 2(1-2) + n 3/2 1/201 m - n \$/16 a B (1-11/1-8) 1- 1 4 8 (1-2) - 44 1/20 (1-4) 1+(+) + + 1+1616+ 11-3 /11 NA (1-17) A) + 4 1000 (1-10) 1-20 1 +8 / 2/ 8"(1-0)" 1 - + JULIE 0 (STO - JULIUD) + JZ+2VMB+2/113 1年的7年中国为中华。 3年9年9月11年3月11年3 34・大切機能で、

$$\frac{12(-2)}{\sqrt{36}} + \frac{1}{\sqrt{(-4)(1-6)}} + 2 \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$$

(a)
$$\int_{a}^{b} + \int_{a}^{b} \int_{a}^{b$$

$$P = 1 - \sqrt[3]{3} - \sqrt[3]{(1-\alpha)(1-\alpha)}$$

$$Q = 4 \left(\sqrt[3]{3} + \sqrt[3]{(1-\alpha)(1-\alpha)} - \sqrt[3]{3}(1-\alpha)(1-\alpha)} \right)$$

$$R = 4 \sqrt[3]{3}(1-\alpha)(1-\alpha)}$$
7. $P : 0$, 23. $P - R^{\frac{1}{3}} = 0$.
39. $P^{\frac{1}{3}} - R(6P^{\frac{1}{3}} + 2) + \frac{R^{\frac{1}{3}}}{P^{3} - R} = 0$.
55. $P^{\frac{1}{3}} - R(18P^{\frac{1}{3}} + 9P^{\frac{1}{3}} + 2P^{\frac{1}{3}} = 0$.
$$+ \frac{R^{2}P^{\frac{1}{3}}Q}{P^{3} - R} = 0$$
71. $P^{\frac{3}{3}} - R^{\frac{1}{3}}(4P^{\frac{1}{3}} + 2) + 2PR^{\frac{1}{3}} - R = 0$.
$$\frac{87}{15} \cdot P^{\frac{1}{3}} - Q + \frac{R}{15} = 0$$
47. $P^{\frac{1}{3}} - Q - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
48. $95 \cdot (P^{\frac{1}{3}} - Q)^{\frac{1}{3}} - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
49. $95 \cdot (P^{\frac{1}{3}} - Q)^{\frac{1}{3}} - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
31. $P - Q - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
42. $95 \cdot (P^{\frac{1}{3}} - Q)^{\frac{1}{3}} - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
35. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} - R - \frac{R^{\frac{1}{3}}}{P^{\frac{1}{3}}} = 0$.
36. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} + 2R^{\frac{1}{3}} = 0$.
37. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} + 2R^{\frac{1}{3}} = 0$.
38. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} + 2R^{\frac{1}{3}} = 0$.
39. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} = 0$.
31. $P^{\frac{1}{3}} - Q - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
32. $P^{\frac{1}{3}} - Q - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
33. $P^{\frac{1}{3}} - Q - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
34. $P^{\frac{1}{3}} - Q - PR^{\frac{1}{3}} - 2R^{\frac{1}{3}} = 0$.
35. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} + 2R^{\frac{1}{3}} = 0$.
36. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} = 0$.
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39. $P^{\frac{1}{3}} - R^{\frac{1}{3}} (5P^{\frac{1}{3}} + Q) + 2R^{\frac{1}{3}} = 0$.

7,23 &c
$$Q = \{\phi(x) + 1 \times x \xrightarrow{x + y} f(x; x/4)\} \psi(xy)$$

 $R = x \xrightarrow{x + y} f(xx)$
 $\{P = x \psi(x) - x \xrightarrow{x + y} \psi(xy)\}$
 $\{P = x \psi(x) - x \xrightarrow{x + y} \psi(xy)\}$
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 $\{P = \{x \psi(x) +$

$$P-R^{\frac{1}{3}}=0, \quad 9, \quad P^{5}-R(\mu P^{2}+Q)-\frac{1}{2}P^{2}=0.$$

$$13. \int P(P^{3}+8R)-\sqrt{R}(1P^{2}+Q)=0.$$

$$17. \quad P^{3}-R^{\frac{1}{3}}(10P^{2}+Q)+\frac{1}{3}R^{\frac{1}{3}}P^{2}+1RR=0.$$

$$17. \quad P^{3}-R^{\frac{1}{3}}(10P^{2}+Q)+\frac{1}{3}R^{\frac{1}{3}}P^{2}+1RR=0.$$

$$19. \int P(P^{2}+17R^{\frac{1}{3}}P-9R^{\frac{1}{3}})\\ -\sqrt{R}(9P^{2}+Q-13R^{\frac{1}{3}}P+15R^{\frac{1}{3}})=0.$$

$$19. \quad P^{5}-R^{\frac{1}{3}}(14P^{4}+9P^{2}Q+Q^{2})+R^{\frac{1}{3}}P(19P^{2}+Q)\\ +6R(7P^{2}+Q)+4R^{\frac{1}{3}}P-3R^{\frac{1}{3}}=0.$$

$$19. \quad P^{5}-R^{\frac{1}{3}}(14P^{4}+9P^{2}Q+Q^{2})+R^{\frac{1}{3}}P(19P^{2}+Q)\\ +6R(7P^{2}+Q)+4R^{\frac{1}{3}}P-3R^{\frac{1}{3}}=0.$$

1 + 326 + Lee) = \$\frac{1}{\alpha} \frac{1}{\alpha} \fr $F = \frac{1 - \sqrt{1 - (\sqrt{37} - 6)^6}}{2} = e^{-7\pi\sqrt{37}}$ F 1- 11-4. (113-3)4 (/5+1/3 ± /1/3-3) $F = \frac{1 - \sqrt{1 - (\sqrt{13 + 10})^{14}} - \sqrt{5 + \sqrt{97}}}{2} = e^{-\pi \sqrt{97}}$ F1-11- (15+192 - 111+1193)24 2- 11-11-1193)24 F 1-11- 4. (5-1/2) 4 (5+1/2) + 1/21-3 3 24 = e- 71/63

$$\phi(x) \phi(x) \Rightarrow +4x f(x^{5}) f(x^{11})$$

$$= \phi(x) \phi(x^{5}) + 4x^{6} f(-x^{3}, -x^{6}) f(-x^{285}, -x^{476})$$

$$\phi(-x) \phi(-x^{63}) + 4x^{6} f(-x^{3}, -x^{6}) f(-x^{21}),$$

$$\phi(-x) \phi(x^{63}) + 4x^{6} f(-x^{3}, -x^{6}) f(-x^{21}),$$

$$\phi(x) \phi(x^{63}) + 4x^{6} f(-x^{3}, -x^{3}) f(-x^{21}),$$

$$\phi(x) \phi(x^{63}) + 4x^{6} f(-x^{3}, -x^{3}) f(-x^{3}),$$

$$\phi(x) \phi(x^{63}) + 4x^{6} f(-x^{3}, -x^{3}) f(-x^{3}) f(-x^{3}) f(-x^{3}),$$

$$\phi(x) \phi(x^{63}) + 4x^{6} f(-x^{3}, -x^{3}) f(-x^{3}) f(-x^{3}) f(-x^{3})$$

2 1 + Sta + St war = 1 - 8 Japan 101-10

$$\frac{1}{\sqrt{37}} + \frac{8/(1-8)(1-7)}{(1-8)(1-6)} - \frac{8}{\sqrt{37}} \frac{37(1-8)(1-7)}{(1-8)(1-6)} = -\sqrt{\frac{1+(1)}{1+(1)}} \frac{1+(1)}{\sqrt{1+(1)}} \frac{1+(1)}{\sqrt{1+(1)}}$$

$$\frac{1}{27} + \sqrt{\frac{1-2}{1-2}(1-5)} - \sqrt{\frac{27(1-2)(1-7)}{26(1-2)(1-5)}} + \sqrt{\frac{27(1-2)(1-7)}{26(1-2)(1-5)}} + \sqrt{\frac{27(1-2)(1-7)}{26(1-2)(1-5)}} + \sqrt{\frac{27(1-2)(1-7)}{26(1-2)(1-5)}} + \sqrt{\frac{27(1-2)(1-7)}{27(1-2)(1-7)}} + \sqrt{\frac{27(1-2)(1-7$$

$$8/ar + 6/(1-a)(1-r) + 8/ar(1-a)(1-r)$$

$$= \frac{1+6r}{8r} + \frac{1}{5} \frac{1}{3}, 9, 27$$

$$= \frac{1+6r}{1+6r} \frac{1}{3} + \frac{1}{5} \frac{1}{3}, 9, 27$$

$$= \frac{1+6r}{1+6r} \frac{1}{3} + \frac{1}{5} \frac{1}{3}, 9, 27$$

$$= \frac{1+6r}{1+6r} \frac{1}{3} + \frac{1}{5} \frac{1}$$

37.
$$P^{3} = R^{\frac{1}{3}}(TP^{2}+Q) - 3PR^{\frac{1}{3}} - 25R - M(19P^{2}-26)$$

$$+ 82$$

$$1 + 2 \left\{ \frac{3}{4}\sqrt{8} + \frac{1}{4(1-a)(1-a)} \right\} = \frac{1 + \frac{112}{12}}{1 + \frac{112}{12}}\frac{74}{44} + \frac{1 + \frac{11$$

$$\frac{1}{3(1-B)} = 0 \quad \text{ft.} \quad \frac{1}{3\sqrt{10+10\sqrt{5}}}$$

$$\frac{1}{3\sqrt{10+10\sqrt{5}}}$$

$$\frac{1}{3+10} = 0 \quad \text{ft.} \quad \frac{1}{2}(a+\frac{1}{a}-2)$$

$$\frac{1}{3-3} = \frac{3}{7} - \frac{9}{(42+1)^{5}(1+2\sqrt{2})}$$

$$\frac{9-49}{15-3(5+4\sqrt{2})^{5}}$$

$$\frac{13-3}{35-9} = \frac{3(5+4\sqrt{2})^{5}}{35-63(8\sqrt{2}+5\sqrt{8})^{2}}$$

$$\frac{13-9}{35-63(8\sqrt{2}+5\sqrt{8})^{2}}$$

$$\frac{17-9}{35-63(8\sqrt{2}+5\sqrt{8})^{2}}$$

$$\frac{17-9}{35-63(8\sqrt{2}+5\sqrt{2})^{2}}$$

$$\frac{17-9}{35-63(8\sqrt{2}+5\sqrt{2})^{2}}$$

$$\frac{17-9}{35-63(8\sqrt{2}+5\sqrt{2})^{2}}$$

$$\frac{17-9}{35-63(8\sqrt{2}+5\sqrt{2})^{2}}$$

$$\frac{17-9}{35-63(8\sqrt$$

$$F = \sqrt{1 - (\sqrt{2 + \sqrt{13}} - \sqrt{1 + \sqrt{13}})^{2/3}} = e^{-7\pi \sqrt{73}}$$

$$= \sqrt{1 - (\sqrt{1 + \sqrt{13}} + \sqrt{1 + \sqrt{13}})^{2/3}} = e^{-7\pi \sqrt{73}}$$

$$F = \sqrt{1 - (\sqrt{1 + \sqrt{13}} + \sqrt{1 + \sqrt{13}})^{2/3}} = e^{-7\pi \sqrt{73}}$$

$$= \sqrt{1 - \sqrt{1 + \sqrt{13}}} + \sqrt{1 - \sqrt{13}}$$

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$$= \sqrt{1 - \sqrt{1 + \sqrt{13}}} + \sqrt{1 - \sqrt{13}}$$

$$= \sqrt{1 - \sqrt{13}} +$$

$$F = \frac{1 - \sqrt{1 - \left(\sqrt{6 + 8J}3 - \sqrt{2 + 3J}3\right)^{12}}{4}}{2} = e^{-77\sqrt{69}}$$
when $t = \left(-\frac{1}{5 + 2J}3\right)\sqrt{1. + 6J}3 + 1$

$$\pm \frac{1}{5 + 3J}3\sqrt{1. + 6J}3 + 1$$

$$= \frac{1}{5 +$$

女(3/19-13) (2±/3)6 57 大 (39-7 V31) (V31 ±3 V3) 6 158 193. 女(3√59±23)4(2-/3)18 V177 (15 ± 2)8 (185-9)6 185 (8-3/7)6 (5-17 ± 3/19)6 155 to (15-2)4 (57+75 + 55-1) 24 165- (113 ±3)6. (5+2)2. (19+165- 1+15) 1253 (24-5/23)6 (9/28 ± 13/11)6 1745 (15-2)6 (19-5)6 (17+1745+ + 19+1765) 117. (13-3)6(113-2/3)4 (14+13 ± 1/3)34 J888 (137-6)6 (2/37-7/3)48 (J37+9/17+ /33+9/17) 177 (8±8/7) (111±17) (16+10 12+41) (2) · 67 (5 ± 12) 3 (3/5 + 123) 3 (16+3/3 - 12+3/4) (5/3 (5/9 ± 7/71) (5/0 ± /71) (July 1/6 - /19 10/8)

$$g_{qg} = \left(\int_{0}^{15+1} \frac{1}{8} \int_{0}^{15+1} \frac{1}$$

966 = 5/2 + /3 \$ 3/11 + 1/2 / 57 + /35 + / VIII-1 9,38=4/3/3+123 1823/23+7+12. 5/5+256 ± 1+456. 9154=4112+57 4511+51 / /9+851 + 15+2521 9/14 = 4/J3 ± Ja 14/19 + 3/2 5 3/3 + /19 + 5/5 + 3/57. 8238 = (15+3/2 + SI+3/2) (15+3/2 ± 1/1+3/2) 9(2 = (\int \frac{4 + \sqrt{1+\sqrt{2}}}{8} + \sqrt{\sqrt{1+\sqrt{2}}} + \sqrt{\sqrt{1+\sqrt{2}}} + \sqrt{\sqrt{9+\sqrt{2}}} - \frac{2}{8} 894 = (\(\frac{4+\sqrt{7+\sqrt{2}}{8} + \sqrt{1+\sqrt{2}}{7+\sqrt{2}} + \sqrt{\sqrt{7+\sqrt{2}}}{8} 9154 = 4/2/2 ± 17 4/11 ± 17 / 13 + 152 + 19+ 1/2 $g_{310} = J_{5} \pm \frac{1}{4} J_{2} \pm \frac{1}{4} \left(\int \frac{7 + 2J_{10}}{4} + \int \frac{3 + 2J_{10}}{4} \right)$ 9158 = []4+ 19+12 + 117+13/2 + [19+12 + 117+13/2 - 4] J465 (13+2 /31 / 11+2 /31) (131-3 /3) 6 (2-13) 6 × (16+121 - 12+131) (555-2151) (15-2)2 $\sqrt{777} \quad (\sqrt{37-6})^{6} (107\sqrt{37} - 246\sqrt{7})^{2} (\sqrt{17+6\sqrt{7}} - \sqrt{15+6\sqrt{7}})^{12} \\
\times (\sqrt{10+3\sqrt{7}} - \sqrt{6} + 3\sqrt{7})^{12} (2-\sqrt{3})^{6} (\sqrt{7-\sqrt{3}})^{6}$ 1353 () 569 +79 (38) [561 +77 133 (321 1457 - 68)7) X (123 -11) (10-3/11) (2-13) 9 (/ 25+3/13 - / 17+1/3

11645 (1751+41/329 - 5743+41/329) (9/329 - 73/8) × (13-2) 12 (127 +7 /329 - / 119 +7 /329) (7-147) (8-3/7) (8-3/7) 1897 Q+ Q = 58+9/09 D+ 5 = 6+109 11677 S+5 = 15+2143 $\sqrt{161} = \sqrt{15} + \sqrt{17} = \sqrt{15} + \sqrt{17} = \sqrt{15} + \sqrt{15} = \sqrt{1$ 1553 (143+16/79 - 5141+16 179) (7100+11V79+ 196+115 9210 = 573 +J2 6/35T4 +555 5 57 + +53 5 58 +1 9386 = 516+15 5 115+111 . 15+1 . 6/511+10. Hums are If 9 = un; a+ta= 2U, 1 + to= 2V, JU2+V2-1 = W and & S = U +V +W+1, then F (15. 15-1) (15-0-15-4-1) (15-V-15-V-1) (15-W-15-W-1 $\sqrt{210} := \frac{(4 - \sqrt{15})^4 (\sqrt{10} - 3)^4 (\sqrt{7} - \sqrt{5})^4 (8 - 3\sqrt{7})^2 (6 - \sqrt{55})^2}{\times (\sqrt{7} \cdot 9 - \sqrt{14})^2 (3 - 2\sqrt{2})^2 (2 - \sqrt{3})^2}$

$$\int_{0}^{\infty} f(x) = 11 + \int_{0}^{\infty} f(x) = 1 + \int_{0}^{\infty} f(x) = \int_{0$$

$$\begin{cases}
u = \frac{f'(-x)}{xf'(-x')} \quad \text{and } v = \frac{f(-x')}{x^2 f(-x')}, \text{ then} \\
2u = 7(v^3 + 5v^2 + 7v) + (v^2 + 7w + 7)\sqrt{4w^3 + 21w^2 + 28w} \\
1 + 12(\frac{x}{1-x} + \frac{2x^2}{1-x} + bc) - 12(\frac{3x^2}{1-x} + \frac{6x^2}{1-x} + bc) \\
= \frac{\{\psi'(x) + 3x \psi'(6r^3)\}^2}{\psi'(x) \psi'(x^3)} = \frac{\{f''(x) + 27x f(^2x^3)\}^2}{f'(x) f(^2x^3)} \\
= \frac{\{\phi'(x) + 3\phi'(\sqrt{x})\}^2}{4\phi(x)\phi(x^3)} \\
1 + 12(\frac{x^2}{1-x} + \frac{2x^2}{1-x} + bc) - 12(\frac{3x^2}{1-x} + \frac{6x^2}{1-x} + bc) \\
= \{\frac{\phi'(x) + 3\phi'(6r^3)}{4\phi(x)\phi(x^3)}\}^2 = \phi'(x)\phi'(x^3)\} 1 - \frac{4x}{\chi^2(x)}\frac{1}{\chi^2(x)}\frac{1}{\chi^2(x)} \\
= \{\frac{\phi'(x) + 3\phi'(6r^3)}{4\phi(x)\phi(x^3)}\}^2 = \phi'(x)\phi'(x^3)\} 1 - \frac{4x}{\chi^2(x)}\frac{1}{\chi^2($$

$$1 + 6\left(\frac{x}{1-x} + \frac{2x^{2}}{1-x^{2}} + 2x^{2}\right) - 6\left(\frac{5x^{2}}{1-x^{2}} + \frac{10 \times 10}{1-x^{20}} + 2x^{2}\right)$$

$$= \int f^{12}(-x) + 22x f^{2}(-x) f^{2}(-x) + 125 \times 2 \int f^{12}(-x) f(-x) f(-x) f(-x)$$

$$= \int f^{12}(-x) + 22x f^{2}(-x) f^{2}(-x) f(-x) f(-x$$

$$= \left\{ \psi^{4}(x) + 2x\psi^{2}(x)\right\} \psi^{2}(x) + 6x^{2}\psi^{4}(x) \right\} \sqrt{\psi^{4}(x) - 2x\psi^{2}(x)\psi^{2}(x)} + 6x^{2}\psi^{4}(x) + 6x^{2}\psi^{4}(x$$

$$= \phi^{L}(x) \phi^{2}(x^{5}) \left\{ 1 - \frac{2x}{\chi^{4}(x)} \chi^{4}(x^{5}) \right\} \sqrt{1 - \frac{4x}{\chi^{4}(x)} \chi^{4}(x^{5})}$$

$$= \left\{ 1 + 4\left(\frac{x}{1-x} + \frac{2x^{2}}{1-x} + \frac{3x^{2}}{1-x^{2}} + 8\right) - 4\left(\frac{7x^{2}}{1-x^{2}} + \frac{14x^{14}}{1-x^{2}} + \frac{14x^{14}}$$

$$= \begin{cases} f^{9}(x) + \frac{4x^{2}}{1-x^{2}} + \frac{3x^{2}}{1-x^{2}} + 8x - 4\left(\frac{7x^{2}}{1-x^{2}} + \frac{14x^{14}}{1-x^{14}} + 8c\right) \\ = \begin{cases} f^{9}(x) + 13xf(-x)f(-x^{2}) + 49x^{2}f(-x^{2}) \end{cases} \begin{cases} \frac{2}{3} \\ f(-x^{2}) \end{cases}$$

$$\frac{1+4\left(\frac{x^{2}}{1-x^{2}}+\frac{2x^{4}}{1-x^{2}}+\frac{2}{1-x^{4}}+\frac{1}{2x^{2}}+\frac{36}{2x^{4}}\right)}{1-x^{2}} = \frac{1+4\left(\frac{x^{2}}{1-x^{2}}+\frac{12x^{4}}{1-x^{2}}+\frac{12}{2x^{4}}+\frac{12x^{4}}{1-x^{2}}+\frac{12x^{4}}{2x^{4}}\right)}{1+3\left(\frac{x^{2}}{1-x^{2}}+\frac{12x^{4}}{1-x^{4}}+\frac{12x^{4}}{2x^{4}}+\frac{12x^{4}}{1-x^{4}}+\frac{12x^{4}}{2x^{4}}\right)} = \frac{1+3\left(\frac{x^{2}}{1-x^{4}}+\frac{12x^{4}}{1-x^{4}}\right)}{1+3\left(\frac{x^{2}}{1-x^{4}}+\frac{12x^{4}}{2x^{4}}\right)} = \frac{1+3\left(\frac{x^{2}}{1-x^{4}}+\frac{12x^{4}}{2x^{4}}\right)}{1+2x^{4}} = \frac{1+3\left(\frac{x^{2}}{1-x^{4}}+\frac{12x^{4}}{2x^{4}}\right)}{1+2x^{4}} = \frac{1+3\left(\frac{x^{2}}{1-x^{4}}+\frac{12x^{4}}{2x^{4}}\right)}{1+2x^{4}} + \frac{1+3x^{4}}{1+2x^{4}} + \frac{1}{2x^{4}} + \frac$$

$$= \frac{1}{4} \frac{1}{12} \left(\frac{x^{1}}{1-x^{2}} + \frac{1}{1-x^{2}} + \frac{1}{4x^{2}} \right) - \frac{1}{2} \left(\frac{1}{1-x^{2}} + \frac{1}{2x^{2}} + \frac{1}{2x^{2}} \right) + \frac{1}{2x^{2}} + \frac{1}{2x^{2}}$$

$$= \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{1}{4x^{2}} + \frac{1}{4x^{2}} \frac{1}{4x^{2}} \frac{1}{4x^{2}} + \frac{1}{4x^{2}} \frac{1}{4x^{$$

30)
$$(8\pm 3\sqrt{7})^3 (23\sqrt{73} \pm 87\sqrt{7})^3 \times (23\sqrt{73} \pm 87\sqrt{7})^3 \times (23\sqrt{73} + 7\sqrt{73})^3 + (23\sqrt{73} + 7\sqrt{73} + 7\sqrt{73})^3 + (23\sqrt{73} + 7\sqrt{73})^3 + (23\sqrt{73} + 7\sqrt{73} + 7\sqrt{73})^3 + (23\sqrt{$$

$$\begin{aligned}
&(x + 1) + x + f(x) = V_{ii} = x^{ij} + V_{ii} \\
&(x + 2) = x^{ij} + f(x^{ij}) + f(x^$$

$$\frac{x}{x} f(x^{\frac{1}{17}}) = \frac{f(x^{\frac{1}{17}}, x^{\frac{1}{17}})}{x^{\frac{1}{17}} f(x^{\frac{1}{17}}, x^{\frac{1}{17}})} = \frac{1}{x^{\frac{1}{17}} f(x^{\frac{1}{17}}, x^{\frac{1}{17}})} + \frac{1}{x^{\frac{1}{17}} f(x^{\frac{1}{17}}, x^{\frac{1}{17}})} +$$

f(xti) f(xti)

$$\frac{\sqrt{3}}{\sqrt{3}} - \frac{\sqrt{3}(1-\alpha)(1-\alpha)}{\sqrt{3}} = P$$

$$\frac{\sqrt{3}}{\sqrt{3}} - \frac{\sqrt{3}(1-\alpha)(1-\alpha)}{\sqrt{3}} = R$$

$$\frac{\sqrt{3}}{\sqrt{3}} + \frac{\sqrt{3}}{\sqrt{3}} = R$$

$$\frac{\sqrt{3}}{\sqrt{3}} + \frac{\sqrt{3}}{\sqrt{3}} = R$$

$$\frac{\sqrt{3}}{\sqrt{3}} + \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{\sqrt{3}}$$

$$\frac{\sqrt{3}}{\sqrt{3}} + \frac{\sqrt{3}}{\sqrt{3}}$$

$$\frac{\sqrt{3}}$$

$$= \frac{1}{x} + \frac{1}{2x} \cdot \frac{1}{3x} + \frac{3}{5x} + \frac{18}{7x} + \frac{60}{9x} + \frac{1}{12} + \frac{1}{12} \cdot \frac{1}{1$$

(1) P = f(=x) & Q = f(=x) . (PQ) + (3-1) + 5-

(a) If $P = \frac{f(-x)}{2\pi f(-x^2)} = \frac{f(-x)}{2\pi f(-x^2)}$, then $(PQ)^3 + \frac{3}{4\pi} = \frac{f(-x)}{2\pi f(-x^2)}$, then

(4) P = x 2 f (- x 5) & Q = x 2 f (- x 3)

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(PQ) + (FQ) = (学) -7·(学) +7(是) - (是) .

(PQ)3+(声)8=(平)6-9·(平)3-9·(日)3-(日)6

$$\frac{x}{1+n} + \frac{1^{n}z^{k}}{3+n} + \frac{2^{n}z^{k}}{5+n} + \frac{3^{n}z^{k}}{7+n} + 4^{n}z^{k}$$

$$= \frac{2(\frac{3}{2} - \frac{3^{n}z^{k}}{9+n} + \frac{3^{n}z$$

$$\frac{1}{1} \int_{0}^{\infty} \frac{dx}{e^{xx}} + e^{-xx} \int_{0}^{\infty} \frac{x^{n-2}}{e^{x}} dx$$

$$= \sqrt[n]{\frac{1}{1}} \int_{0}^{\infty} \frac{1}{e^{x}} \int_{0}^{\infty} \frac{x^{n-2}}{e^{x}} dx$$

$$+ \sqrt[n-1]{\frac{1}{1}} \int_{0}^{\infty} \frac{1}{e^{x}} \int_{0}^{\infty} \frac{x^{n-2}}{e^{x}} dx$$

$$+ \frac{1}{1} \int_{0}^{\infty} \frac{1}{e^{x}} \int_{0}^{\infty} \frac{1}e^{x} \int_{0}^{\infty} \frac{1}{e^{x}} \int_{0}^{\infty} \frac{1}{e^{x}} \int_{0}^{\infty} \frac{1$$

f(-2,-2) = T+ *+x+ 1+ x+x6 m { 2(m+n) + m+ (+n)+ + m+ + (2+m)+ 8() } + m { 2(m+n) + m+ (1+m)+ m+ (2+m)+ 3/-= + mn / the true mitter + m+ 17 mitter + m+ 17 mitter mitter $-2\pi.\frac{1-e^{2\pi m}\cos 2\pi n-e^{2\pi m}\cos 2\pi m+e^{2\pi (m+n)}\cos 2\pi m+e^{2\pi (m+n)}\cos 2\pi m+1)(e^{4\pi m}\cos 2\pi m+1)}{(e^{4\pi m}\cos 2\pi m+1)(e^{4\pi m}\cos 2\pi m+1)}$

$$A/\phi(a,B) = a \left\{ \frac{1}{2(\alpha^{2}+\beta^{2})} + \frac{1}{\alpha^{2}+(1+\beta)^{2}} + \frac{1}{\alpha^{2}+(1$$

7 + 1+ (2n) emm+emm + 1+ 4 my evil m+ evil m+ +m { n - m = et - 1 - (2m) - m = ext - 1 + dy } $= \frac{\pi}{4n} \cdot \frac{\sec \frac{\pi m}{2n}}{e^{\frac{\pi}{2}} - 1} + \frac{1}{2} \left(\frac{1}{n+m} - \frac{1}{3n+m} + \frac{1}{5n+m} \right)$ 2 + Sinx + Sin4x + Sin4x + Sin4x + Sin4x + 3(est 1) + . = 4 } B2 x - B6 x3 + B10 x5- ge} H X/8 = 772 33 sed 27 - 1) d= { Sech # costa + costa = p2 { cost p + cosp J' Fed Tongo + 800 Sin 2mx Sx (Cosh TX + cos TX) 3 Cosh 27 + 3 3 = 7 - 2 { e cosn -If d B = The 3 (cook 3d + coo 3d) + &c Cosh x + cosx 2. Cossp Cosksp + 2 Coss costs - 2 (costs + costs) - 3 cost 37 (ash63 tasks

$$= \frac{3\pi \times \beta_{0}}{3\sqrt{3}} + \frac{\beta_{0}}{3\cdot 4\times 3} + \frac{\beta_{10}}{9\cdot 10\times 7} + \frac{\beta_{10}}{10\cdot 16\cdot \times 10} + \frac{\beta_{10}}{3\sqrt{3}} + \frac{\beta_{10}}{3\cdot 4\times 3} + \frac{\beta_{10}}{3\times 4\times 3} +$$

$$a_{1} = \frac{1}{3} a_{5} = \frac{1}{3} a_{1}$$

$$a_{1} = \frac{1}{3} a_{5} = \frac{1}{3} a_{1}$$

$$a_{1} = \frac{1}{3} a_{5} = \frac{1}{3} a_{1} = \frac{1}{3} a_{1} = \frac{1}{3} a_{1} = \frac{1}{3} a_{2} = \frac{1}{3} a_{1} = \frac{1}{3} a_{2} = \frac{1}{3} a_{2} = \frac{1}{3} a_{2} = \frac{1}{3} a_{3} = \frac{1}$$

$$\alpha_{3,3} = \frac{1}{\sqrt{3}}; \alpha_{3,9} = \frac{1}{\sqrt{2} + 1} \sum_{i=1}^{2} \alpha_{3,16} = \frac{2-\sqrt{3}}{3}$$

$$\frac{\phi^{2}(e^{-\pi})}{\phi^{2}(e^{-\pi})} = \pi b_{\pi} \sqrt[6]{4\beta(1-\beta)}$$

$$b_{1} = 1; b_{3} = \frac{1}{\sqrt{3}}; b_{5} = 1; b_{7} = \frac{\sqrt{3} + \sqrt{1}}{\sqrt{5}}$$

$$\frac{b_{7}}{1+2c} + \frac{3^{2} \times 6}{1+2c} - \frac{4^{2} \times 10}{1+2c} + \frac{8c}{1+2c}$$

$$= \phi^{2}(e^{2}) \left\{ \times \cdot \frac{1+2}{(1-x)} + x^{6} \cdot \frac{1+2^{3}}{(1-x)} + x^{10} \cdot \frac{1+x^{3}}{(1-x)^{3}} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x)} + \frac{2x^{2}}{(1+x)} + \frac{2x^{2}}{(1+x^{2})} - \frac{2x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x)} + \frac{2x^{2}}{(1+x^{2})} - \frac{2x^{2}}{(1+x^{2})} + c \right\}$$

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$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x)} + \frac{2x^{2}}{(1+x^{2})} - \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{2x^{2}}{(1+x^{2})} - \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{2x^{2}}{(1+x^{2})} - \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{2x^{2}}{(1+x^{2})} - \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} - \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} - \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} - \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$= \psi^{2}(x) \left\{ 1 - \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} + \frac{x^{2}}{(1+x^{2})} + c \right\}$$

$$\begin{aligned}
& \begin{cases}
\frac{1}{2} & \frac{1}{2} \\
\frac{1}{2} & \frac{1}{2} \\
\frac{1}{2} & \frac{1}{2}$$

$$2^{2}\left\{1+240\left(\frac{13}{e^{1\pi\sqrt{L}}}\right)+\frac{2^{3}}{e^{1\pi\sqrt{L}}}\right\}-\frac{1}{2}+240\left(\frac{13}{e^{1\pi\sqrt{L}}}\right)+\frac{1}{2}=0$$

$$2^{3}\left\{1-504\left(\frac{15}{e^{1\pi\sqrt{L}}}\right)+\frac{24}{24}\right)\right\}+\left\{1-504\left(\frac{13}{e^{1\pi\sqrt{L}}}\right)+\frac{24}{24}\right\}=0$$

$$2^{4}\left\{1+450\left(\frac{17}{e^{1\pi\sqrt{L}}}\right)+\frac{1}{2}$$

 $\times \left(\sqrt{\frac{22+3\sqrt{51}}{4}} - \sqrt{\frac{18+2\sqrt{51}}{4}} \right)^{12} \left(\sqrt{\frac{10+\sqrt{51}}{4}} - \sqrt{\frac{4+\sqrt{51}}{4}} \right)^{2}$

$$\frac{f}{f} = \frac{2}{1+2} + \frac{1}{2} + \frac{1}{2} = \frac{1}{1+2} + \frac{1}{2} +$$

C-13) (4-15) (10-0VIT) (0VI-2VII) (15+V)